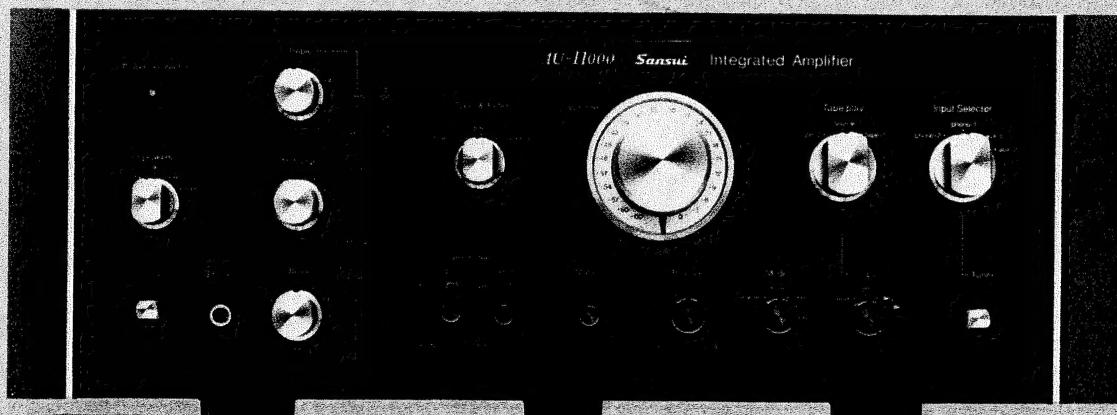


# SERVICE MANUAL

INTEGRATED STEREO AMPLIFIER  
**SANSUI AU-9900/11000**



**Sansui**

SANSUI ELECTRIC CO., LTD.

This service manual is designed for service engineers to repair, adjust, maintain and order the replacement parts of the AU-9900 and AU-11000 correctly.

When ordering the parts, use the stock number and parts name specifically referring to the Parts Locations & Parts Lists.

For general usage and maintenance of the unit, please refer to the Operating Instructions attached with the unit.

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# 1. SPECIFICATIONS

## POWER OUTPUT

Min. RMS, both channels driven, from 20 to 20,000Hz, with no more than 0.08% total harmonic distortion

※AU-9900 {80 watts per channel into 8 ohms

{80 watts per channel into 4 ohms

※AU-11000 {110 watts per channel into 8 ohms

{110 watts per channel into 4 ohms

LOAD IMPEDANCE ..... 4, 8 ohms (SYSTEM A or B)  
..... 8 ohms (SYSTEM A+B)

POWER BANDWIDTH ..... 20 to 20,000Hz at or below  
rated min. RMS power  
output and total harmonic  
distortion

## TOTAL HARMONIC DISTORTION

..... less than 0.08% at or below  
rated min. RMS power  
output

## INTERMODULATION DISTORTION

(70Hz:7kHz=4:1 SMPTE method)

..... less than 0.08%

## FREQUENCY RESPONSE (at 1 watt)

..... 10 to 50,000Hz  $\pm 0$ dB

DAMPING FACTOR ..... approximately 80 at 8 ohms  
load

## INPUT SENSITIVITY AND IMPEDANCE

(1kHz, for rated power output)

PHONO-1 ..... 2, 4, 8 mV/30, 50, 100 kilo-  
ohms

(Max. input capability: 1,000 mV at 1kHz, less than  
0.1% total harmonic distortion and PHONO-1 SEN-  
SITIVITY switch at 8 mV)

PHONO-2 ..... 2 mV/50 kilo-ohms

(Max. input capability: 300 mV at 1kHz, less than  
0.1% total harmonic distortion)

TUNER ..... 130 mV/50 kilo-ohms

AUX-1, 2 ..... 130 mV/50 kilo-ohms

TAPE-1, 2 PLAY(pin jacks)  
..... 130 mV/50 kilo-ohms

TAPE-2 REC/PLAY (DIN socket)

..... 130mV

MAIN IN ..... 700 mV/100 kilo-ohms

## OUTPUT LEVEL (1,000Hz)

TAPE-1, 2 REC (pin jacks)

..... 130 mV

TAPE-2 REC/PLAY (DIN socket)

..... 30 mV

PRE OUT ..... 700 mV

## CHANNEL SEPARATION (1kHz, at rated power output)

PHONO-1, 2 ..... better than 55dB

TUNER ..... better than 60dB

AUX-1, 2 ..... better than 60dB

TAPE-1, 2 PLAY ..... better than 60dB

MAIN IN ..... better than 70dB

## HUM AND NOISE (IHF)

PHONO-1, 2 ..... better than 65dB

TUNER ..... better than 80dB

AUX-1, 2 ..... better than 80dB

TAPE-1, 2 PLAY ..... better than 80dB

MAIN IN ..... better than 100dB

## CONTROLS

BASS .....  $\pm 10$ dB (30Hz)

Tone selector (turnover frequency)

..... 150, 300, 600Hz

MIDRANGE .....  $\pm 5$ dB (1.5 kHz)

TREBLE .....  $\pm 10$ dB (20 kHz)

Tone selector (turnover frequency)

..... 2, 4, 8 kHz

LOW FILTER ..... -3dB (20, 60Hz), 12dB/oct.

HIGH FILTER ..... -3dB (7 kHz), 6dB/oct.

..... -3dB (12 kHz), 12dB/oct.

MUTING ..... 0, -20dB

LEVEL SET ..... 0, -10dB, -20dB

## POWER REQUIREMENTS

POWER VOLTAGE ..... 100, 120, 220, 240V 50/60Hz

120V (Usable 110~130V)

(for U.S.A. & Canada only)

POWER CONSUMPTION ..... 180 watts (rated)

515 watts (max)

DEMENSIONS ..... 460 mm (18  $\frac{1}{8}$ ) W

160 mm ( 6  $\frac{5}{16}$  ) H

373 mm (14  $\frac{1}{16}$ ) D

※AU-9900

WEIGHT ..... 17.9 kg (39.5 lbs) net

20.0 kg (44.1 lbs) packed

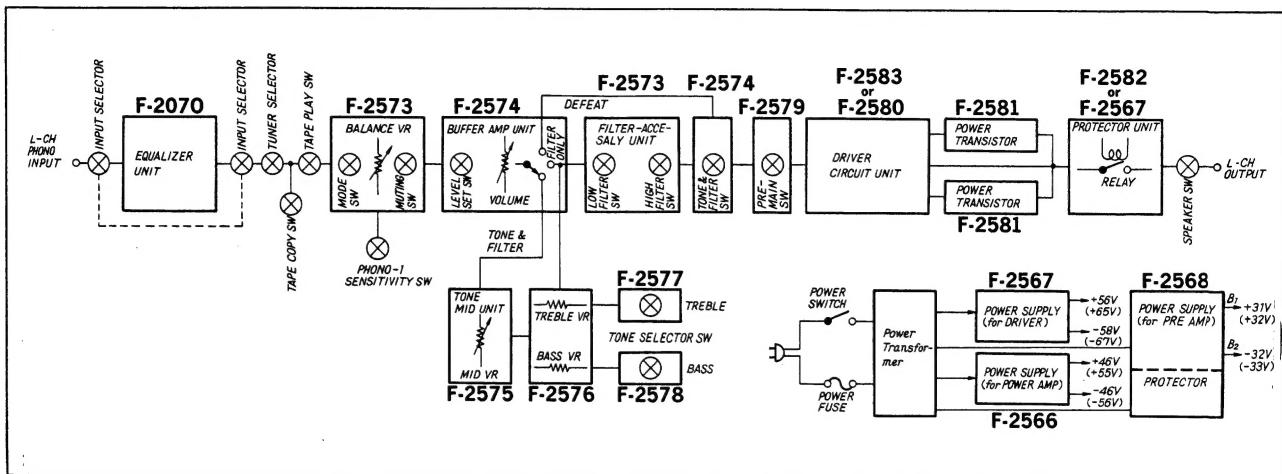
※AU-11000

WEIGHT ..... 19.0 kg (41.9 lbs) net

21.1 kg (46.5 lbs) packed

\* Design and specifications subject to change without notice for  
improvements.

## 2. BLOCK DIAGRAM



## 3. ADJUSTMENTS

### 3-1. Driver Circuit Board Adjustments

Note: 1. Master Volume ..... Minimum  
 2. Room Temperature ..... 10~35°C  
 3. For adjustment, run the unit for more than 5 minutes after the power is switched on.

STEP	SUBJECT	EQUIPMENT	MESURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
1	DC 0V L-CH	DC Volt Meter	Speaker Terminal Fig. 3-2	F-2580 VR01 Fig. 3-1	0V ±10mV	Set bias current to minimum by VR03 and VR04 (clockwise)
2	DC 0V R-CH	DC Volt Meter	Same as above	F-2580 VR02 Fig. 3-1	0V ±10mV	
3	Bias Current L-CH	DC Milliammeter	Terminal 06 of F-2566 Fig. 3-1	F-2580 VR03 Fig. 3-1	50mA ±1mA	After setting leads $\oplus\ominus$ from DC milliammeter to two points as Fig. 3-1 for this adjustment, set power switch to ON.
4	Bias Current R-CH	DC Milliammeter	Terminal 01 of F-2566 Fig. 3-1	F-2580 VR04 Fig. 3-1	50mA ±1mA	

※Change lead's polarity if meter swings backward.

Fig. 3-1

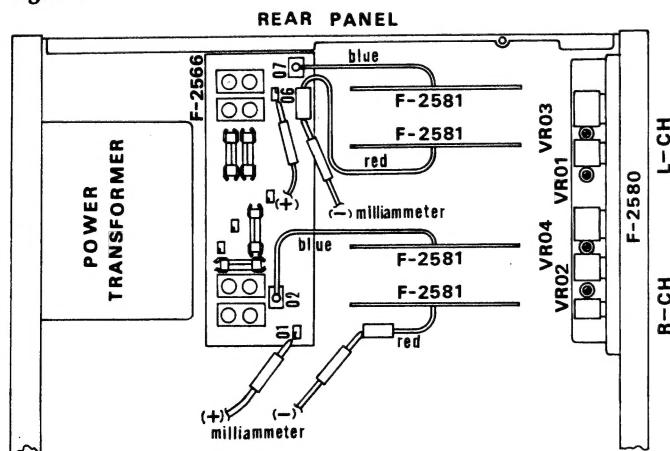
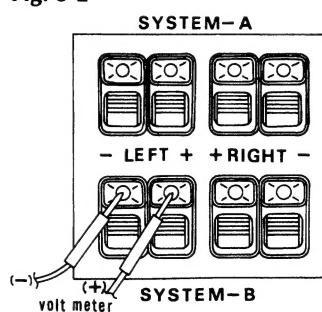


Fig. 3-2

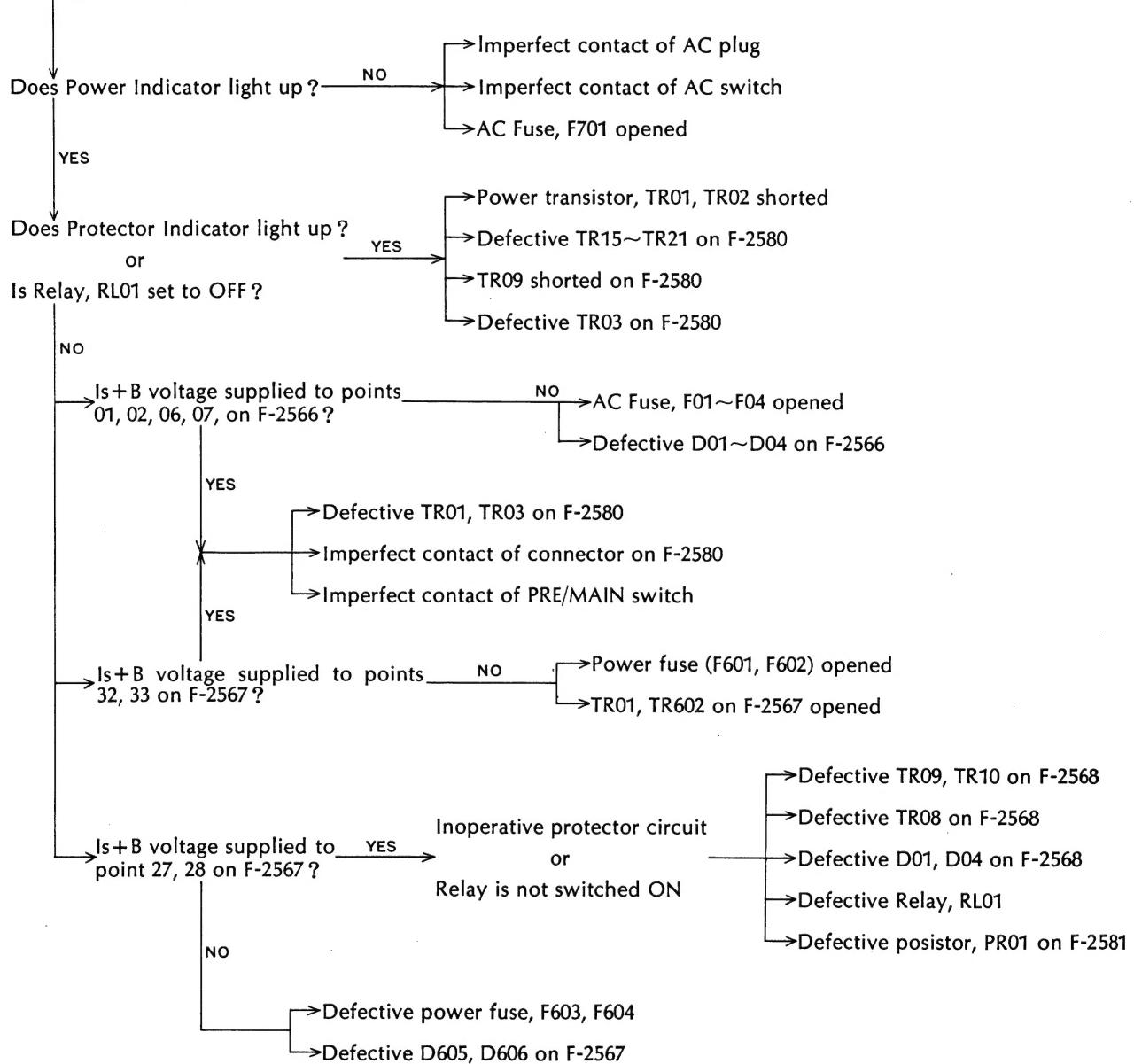


## 4. TROUBLESHOOTING

### 4-1. Troubleshooting Chart

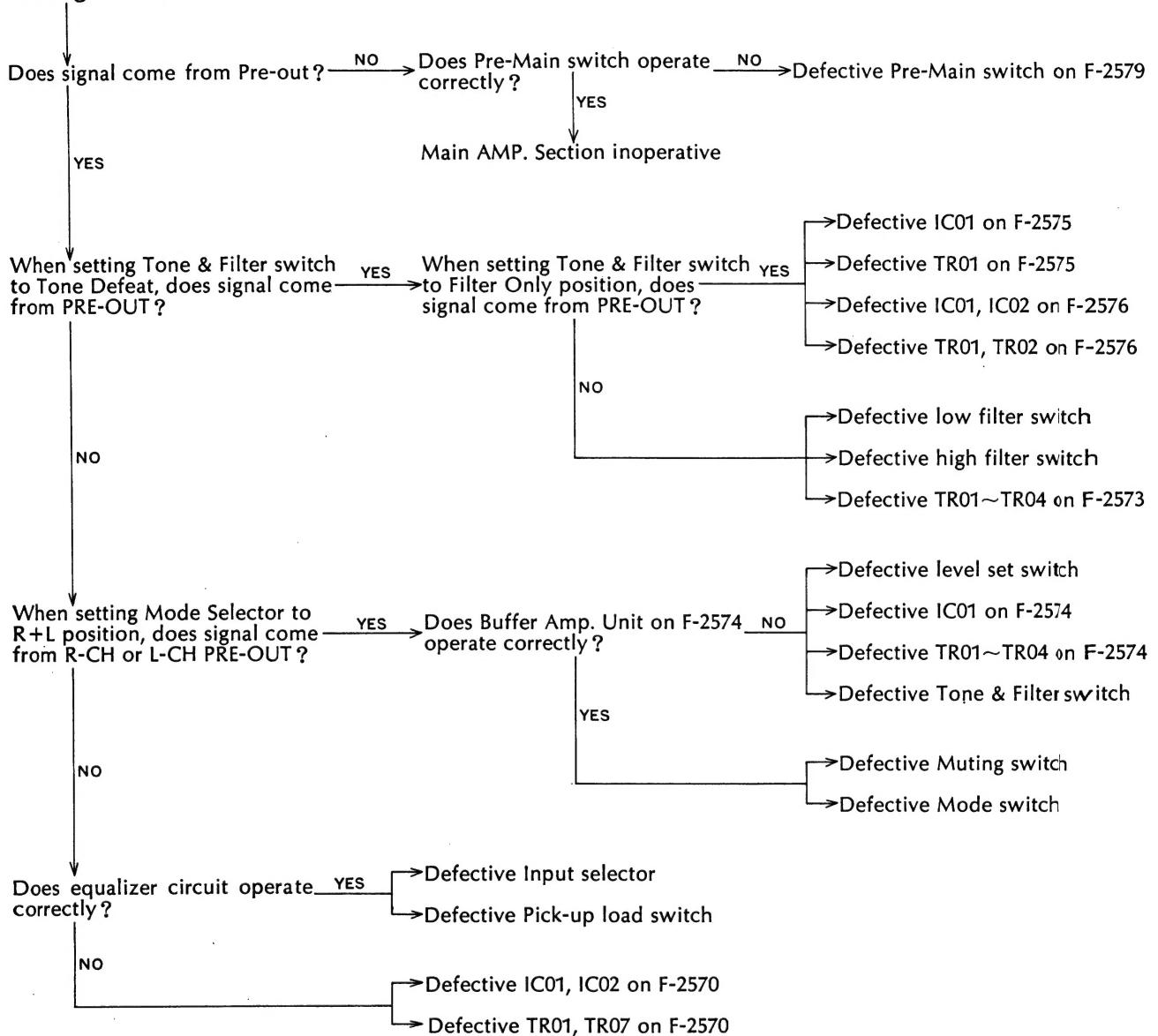
#### Troubleshootings on Main Amp. section (Feed signal... to MAIN IN)

##### Starting Check Point



## Troubleshooting on Pre Amp. Section (Feed signal to PHONO INPUT)

### Starting Check Point

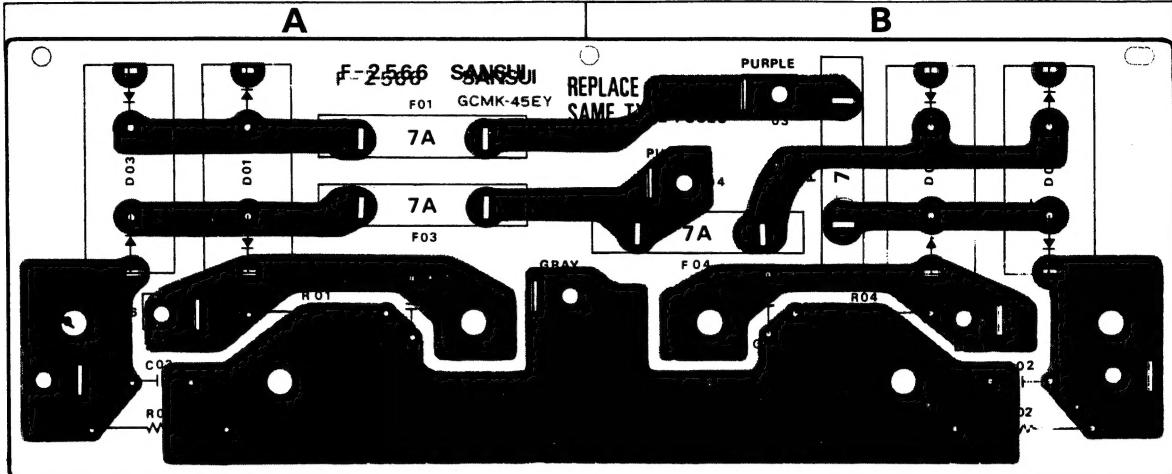


\*Please utilize this "Troubleshooting Chart" together with Operating Block Diagram in next page, if necessary.

## 5. PARTS LOCATION AND PARTS LIST

## 5-1. F-2566 Power Supply Circuit Board AU-9900 (Stock No. 7501201) AU-11000 (Stock No. 7501231)

## **Conductor Side**



## Parts List

Parts No.	Stock No.	Description		
D01, 02	0311310	SS-5	Diode	A . B
D03, 04	0311320	SS-5R		A . B
C01, 02	0659011	10000 pF	500V C.C.	A . B
C03, 04	0659011	10000 pF		A . B
C901, 902	0605477	0.047 $\mu$ F	M.C.	
R01, 02	0105332	3.3k $\Omega$	2W C.R.	A . B

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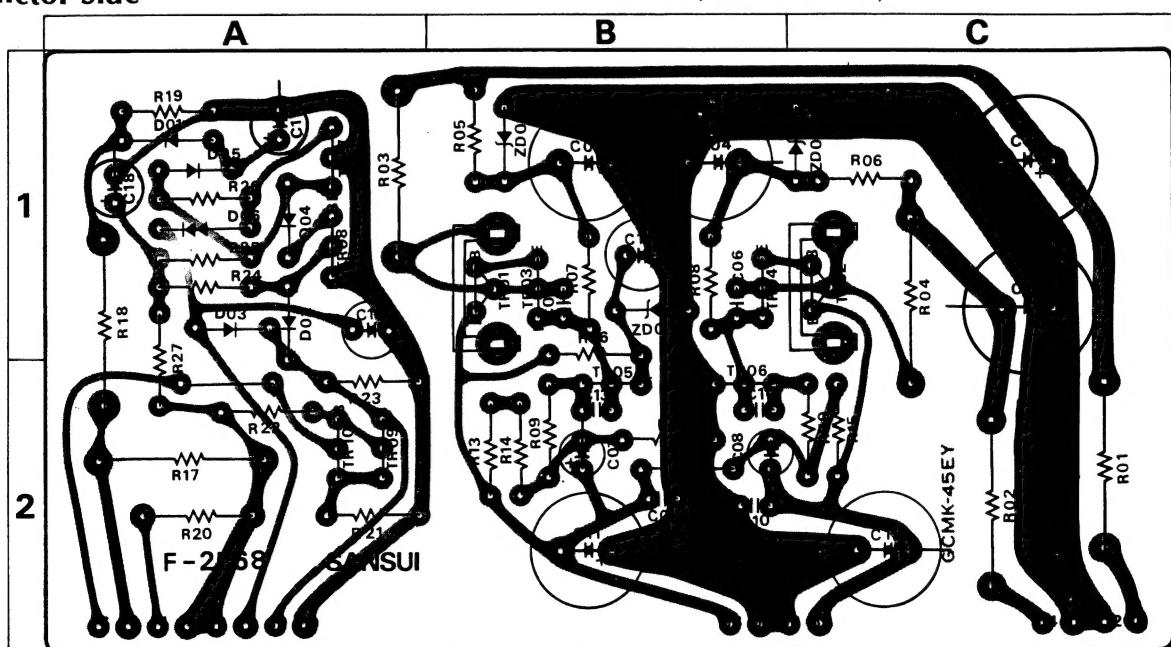
Parts No.	Stock No.	Description
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R03.04	0105332 2310051	3.3kΩ P type	2W Fuse Holder	C.R.	A. B
<b>AU-9900 only</b>					
F01-04	0431280	5A	250V	AC Fuse	A. B
<b>AU-11000 only</b>					
F01-04	0431300	7A	250V	AC Fuse	A. B

## **5-2. F-2568 Regulated Power Supply & Protector Circuit Board Counnductor Side**

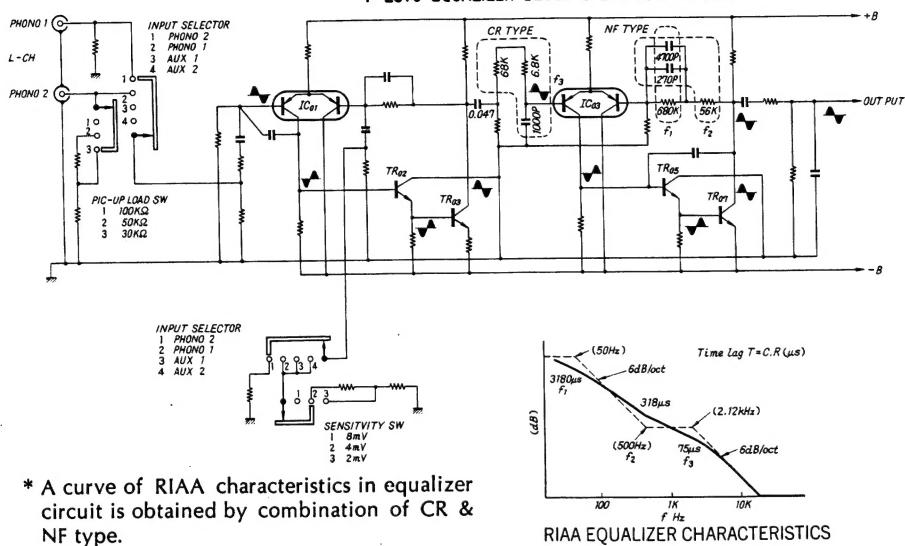
AU-9900 (Stock No. 7501221)  
AU-11000 (Stock No. 7501251)



## 4-2. Operation Block Diagram

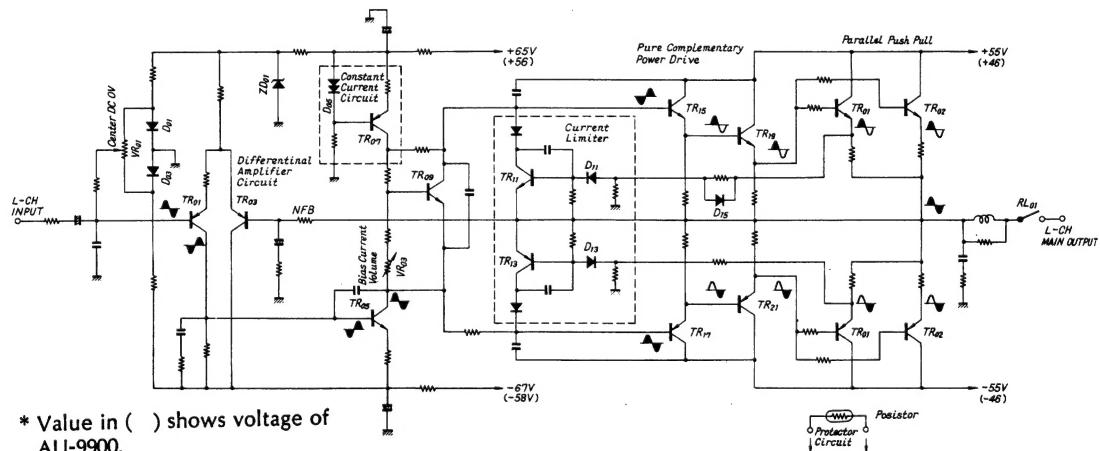
### F-2570 EQUALIZER BLOCK OPERATION DIAGRAM

F-2570 EQUALIZER BLOCK OPERATION DIAGRAM



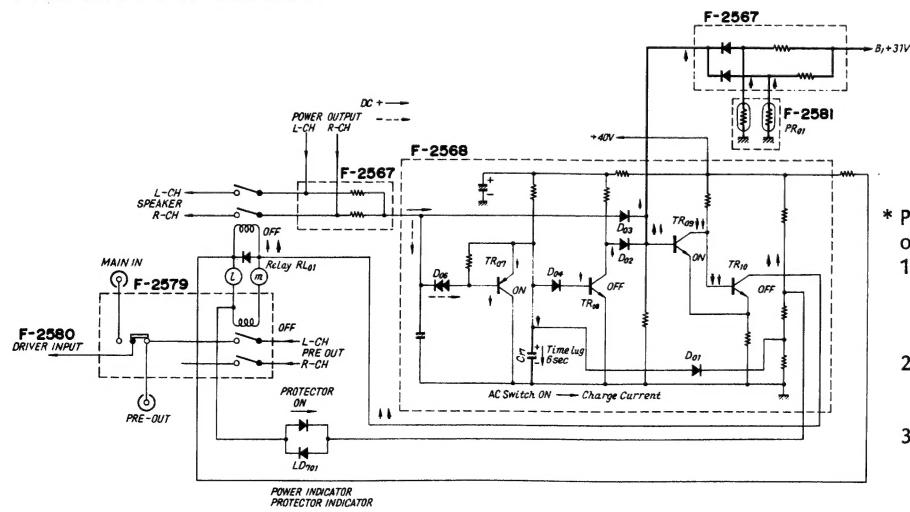
\* A curve of RIAA characteristics in equalizer circuit is obtained by combination of CR & NF type.

### DRIVE & POWER CIRCUIT



\* Value in ( ) shows voltage of AU-9900.

### PROTECTOR CIRCUIT



- \* Protection circuit is composed of the followings, 1, 2 & 3.
  1. Circuit to protect speakers from break-down against continuous or momentary DC voltage.
  2. Circuit with resistor to protect power transistors from thermal runaway.
  3. Transient canceller circuit by relay to be completely free from pop noise at PRE-OUT.

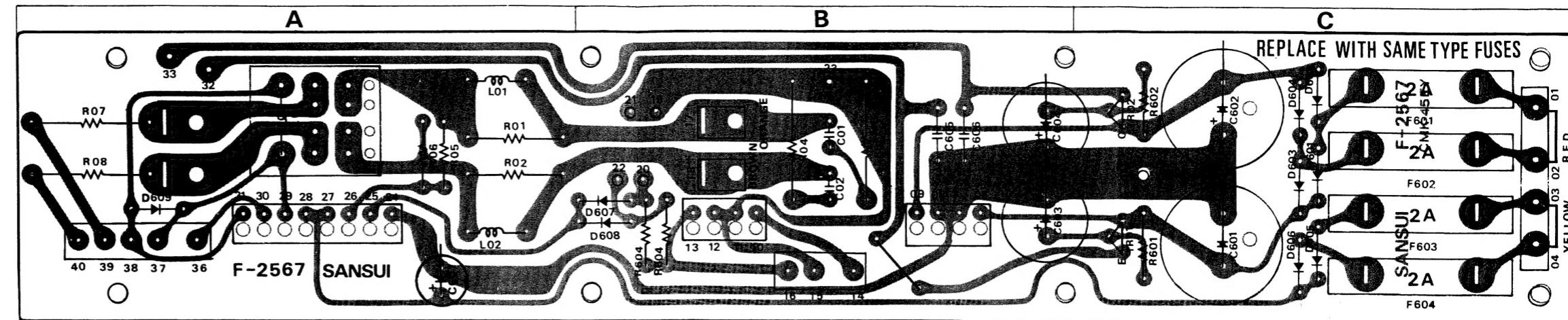
**Parts List**

Parts No.	Stock No.	Description	Position
TR01	0308450, 1	2SD356 (C, D)	1B
TR02	0303280, 1	2SB526 (C, D)	1C
TR03	0306070, 1	2SC1313 (F, G)	1B
TR04	0300470, 1	2SA726 (F, G)	2B
TR05	0300470, 1	2SA726 (F, G)	2B
TR06	0300511, 1	2SA733 (Q, R)	1A
TR07	0306070, 1	2SC1313 (F, G)	1A
TR08	0306070, 1	2SC1313 (F, G)	1A
TR09	0306070, 1	2SC1313 (F, G)	2A
TR10	0306131, 2	2SC1364 (6, 7)	2A
D01	0310331	IN60	1A
D02	0311050	15953	1A
D03	0311050	15953	1A
D04	0311050	15953	1A
D05	0310490	SV-02	1A
ZD01	0316610	RD39E B	1B
ZD02	0316610	RD39E B	1C
ZD03	0316250	RD-10E B	1B
C01	0519904	220 $\mu$ F 80V E.C.	1C
C02	0519904	220 $\mu$ F 80V E.C.	1C
C03	0515101	100 $\mu$ F 50V E.C.	1B
C04	0515101	100 $\mu$ F 50V E.C.	1B
C05	0660330	33 $\mu$ F 50V C.C.	1B
C06	0660330	33 $\mu$ F 50V C.C.	1B
C07	0515100	10 $\mu$ F 50V E.C.	2B
C08	0515100	10 $\mu$ F 50V E.C.	2B
C09	0457103	10000 $\mu$ F 50V C.C.	2B
C10	0457103	10000 $\mu$ F 50V C.C.	2B
C11	0515101	100 $\mu$ F 50V E.C.	2B
C12	0515101	100 $\mu$ F 50V E.C.	2C
C13	0512101	100 $\mu$ F 10V E.C.	1B
C14	0531221	220 $\mu$ F 10V E.C.	1B
C15	0510331	330 $\mu$ F 6.3V E.C.	1B
C16	0515339	3.3 $\mu$ F 50V E.C.	1B
R01	0105121	120 $\Omega$	2C
R02	0105121	120 $\Omega$	2C
R03	0105221	220 $\Omega$	1A
R04	0105221	220 $\Omega$	1C
R05	0107332	3.3k $\Omega$	1B
R06	0107332	3.3k $\Omega$	1C
R07	0107392	3.9k $\Omega$	1B
R08	0107222	2.2k $\Omega$	1B
R09	0107102	1k $\Omega$	2B
R10	0107102	1k $\Omega$	2C
R11	0107472	4.7k $\Omega$	2B
R12	0107213	12k $\Omega$	2B
R13	0107332	3.3k $\Omega$	2B
R14	0107682	6.8k $\Omega$	2B
R15	0107123	12k $\Omega$	2C
R16	0107682	6.8k $\Omega$	1B
R17	0105151	150 $\Omega$ 2W C.R.	2A
R18	0183471	470 $\Omega$ 3W Ce.R.	1, 2A
R19	0107680	68 $\Omega$ 1/4W C.R.	1A
R20	0103471	470 $\Omega$ 1/4W C.R.	2A
R21	0107100	10 $\Omega$	2A
R22	0107473	47k $\Omega$	2A
R23	0107104	100 $\Omega$	2A
R24	0107333	33k $\Omega$ 1/4W C.R.	1A
R25	0107474	470 $\Omega$	1A
R26	0107223	22k $\Omega$	1A
R27	0107222	2.2k $\Omega$	1, 2A
2410770		4P Pin Ass'y C type	
2410790		8P Pin Ass'y C type	
2410960		3P Pin Ass'y F type	

**5-3. F-2567 Power Supply Circuit Board for Driver AMP.**

AU-9900 (Stock No. 7501211)

AU-11000 (Stock No. 7501241)

**Counder Side**

\* Power supply circuit board, either F-2567 or F-2582 for driver amplifier, is used in this model. When replacing the printed circuit board, use same type of the board for easy installation.

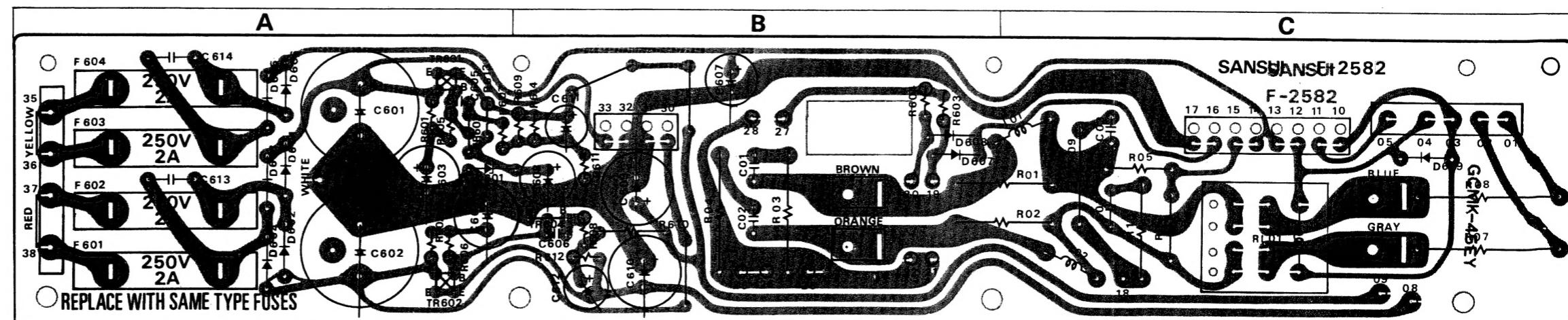
**Parts List**

Parts No.	Stock No.	Description	Position
TR01	0305900, 1	2SC1124 (1, 2)	C
TR02	0300480, 1	2SA706 (1, 2)	B
D01	0310340	10D1	B
D02	0311050	15953	B
D03	0311050	15953	B
D04	0310340	10D1	A
D05	0310340	10D1	A
C01, 02	0601687	0.068 $\mu$ F 50V M.C.	B
C03	0549301	470 $\mu$ F 80V	C
C04	0549301	470 $\mu$ F 80V	C
C05	0660470	47pF 50V C.C.	A
R01	0107823	82k $\Omega$	A
R02	0107683	68k $\Omega$	A
R03	0107103	10k $\Omega$	C
R04	0107103	10k $\Omega$	C
R05	0107224	220k $\Omega$	B
R06	0107224	220k $\Omega$	B
L01, 02	4290210	2.5 $\mu$ H Filter Coil	A
RL01	1150280	Relay	A
F601-604	0431240, 2	2A 250V	C
2310051		P type Fuse Holder	
2410570		3P Pin Ass'y D type	
2420330		4P Connector A type	
2420350		8P Connector A type	

**5-4. F-2582 Power Supply Circuit Board for Driver AMP.**

AU-9900 (Stock No. 7501501)

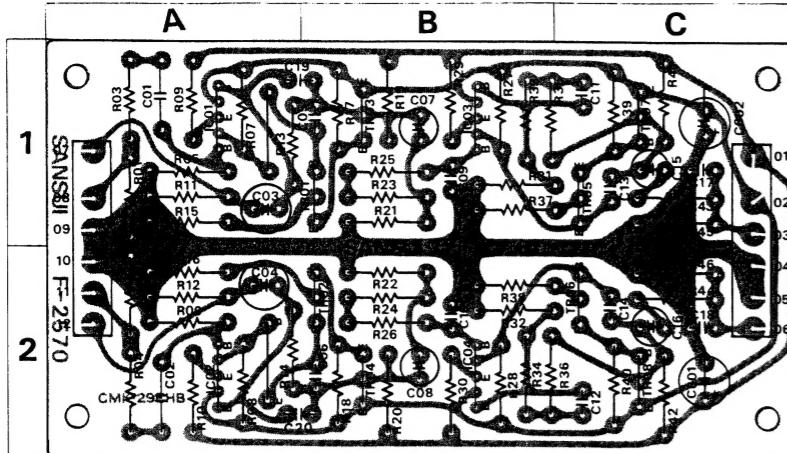
AU-11000 (Stock No. 7501491)

**Counder Side****Parts List**

Parts No.	Stock No.	Description	Position
TR01	0305900, 1	2SC1124 (1, 2)	A
TR02	0308451, 2	2SD356 (D, E)	A
TR03	0300480, 1	2SA706 (1, 2)	A
TR04	0303281, 2	2SB526 (D, E)	A
ZD01	0316310	RD-13E B	A
TR05	0306270, 1	2SC1708 (F, G)	B
TR06	0300470, 1	2SA726 (F, G)	B
D01, 02	0601687	0.068 $\mu$ F 50V M.C.	B
C01	0549301	470 $\mu$ F 80V	A
C02	0549301	470 $\mu$ F 80V	A
C03	0519902	47 $\mu$ F 80V	A
C04	0519902	47 $\mu$ F 80V	A
C05	0660470	47pF 50V C.C.	A
R01	0107823	68k $\Omega$ 1/4W C.R.	C
R02	0135221	220 $\Omega$ 5W Ce.R.	C
R03	0106472	4.7k $\Omega$	B
R04	0106472	4.7k $\Omega$	A
R05	0106154	150 $\Omega$	B
R06	0106154	150 $\Omega$	B
R07	0106332	3.3k $\Omega$ 1/4W C.R.	A
R08	0106102	1k $\Omega$	A
R09	0106273	27k $\Omega$	B
R10	0107333	33k $\Omega$	C
R611	0106103	10k $\Omega$	B
R612	0106333	33k $\Omega$ 1/4W C.R.	B
R613	0106103	10k $\Omega$	A
L01, 02	4290210	Filter Coil	C
RL01	1150280	Relay	C
F601-604	0431240	AC Fuse 2A 250V	A
2310051		P type Fuse Holder	
2410570		5P Pin Ass'y D type	
2420330		4P Connector A type	
2420350		8P Connector A type	

**5-5. F-2570 Equalizer Circuit Board** AU-9900 (Stock No. 7550711)  
AU-11000 (Stock No. 7550721)

Counductor side



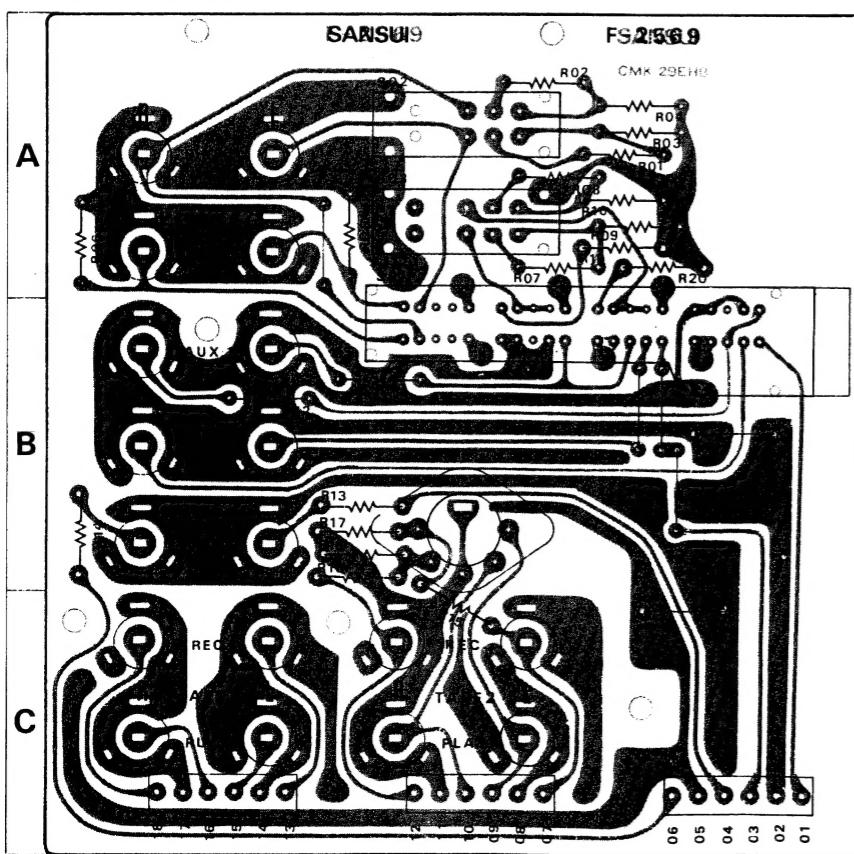
Parts List

Parts No.	Stock No.	Description	Position
TR01, 02	0306070, 1	2SC1313 (F, G)	1A.2A
TR03, 04	0306270, 1	2SC1708 (F, G)	1B.2B
TR05, 06	0306070, 1	2SC1313 (F, G)	1C.2C
TR07, 08	0306270, 1	2SC1708 (F, G)	1C.2C
IC01, 02	0360290, 1	2SA798 (F, G)	1A.2A
IC03, 04	0360290, 1	2SA798 (F, G)	1B.2B

Parts No.	Stock No.	Description	Position
C01, 02	0601478	0.47μF 50V M.C.	1A.2A
C03, 04	0512100	10μF 16V E.C.	1A.2A
C07, 08	0601478	0.47μF 50V M.C.	1B.2B
C09, 10	0630106	1000μF 50V E.C.	1B.2B
C11, 12	0630476	4700μF 50V E.C.	1C.2C
C13, 14	0660100	10μF 50V C.C.	1C.2C
C15, 16	0533339	3.3μF 25V E.C.	1C.2C
	2410600	6P Pin Ass'y D type	

**5-6. F-2569 Input Terminal & Switch Circuit Board**

Counductor Side



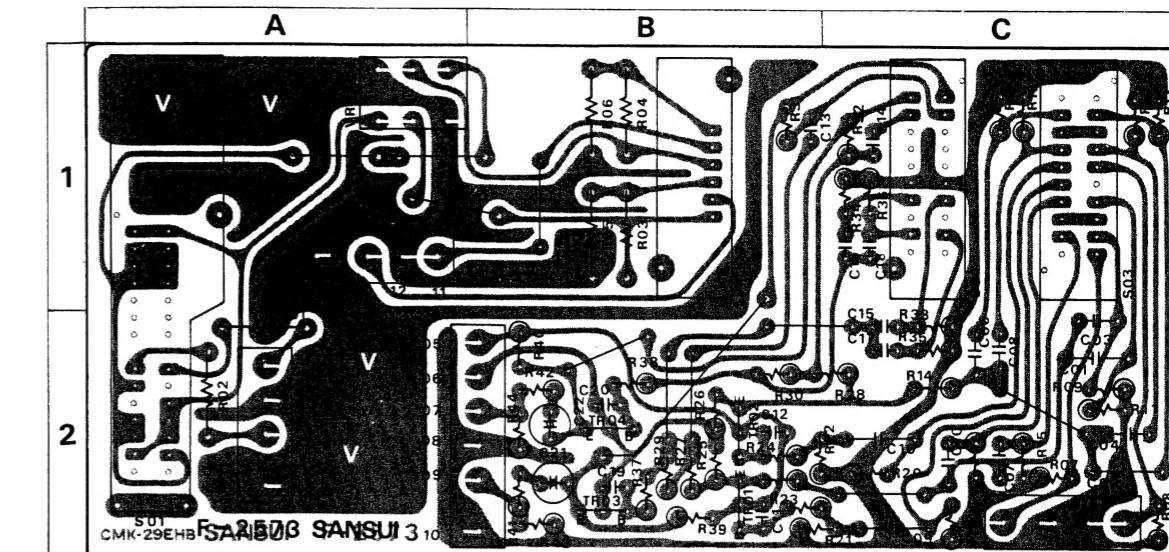
AU-9900 (Stock No. 7592851)  
AU-11000 (Stock No. 7592921)

Parts List

Parts No.	Stock No.	Description	Position
R01, 02	0107563	56kΩ	A. A
R03, 04	0107473	47kΩ	A. A
R05, 06	0107104	100kΩ	A. A
R07, 08	0107333	33kΩ	A. A
R09, 10	0107183	18kΩ	1/4W C.R.
R11, 12	0107102	1kΩ	B. B
R13, 14	0107102	1kΩ	B. B
R15, 16	0107334	330kΩ	B. C. B
R17, 18	0107104	100kΩ	B. B
R19, 20	0107183	18kΩ	A. A
S01	1190260	Input Selector Switch	A. B
S02	1110310	Pick-up Load Switch	A
S03	1110310	Sensitivity Switch	A
J01	2090030	Din Jack	B
	2410780	6P Pin Ass'y C type	
	2430260	2P Jack (white)	
	2430270	1P Jack (red)	

**5-7. F-2573 Filter & Accessory Circuit Board** AU-9900 (Stock No. 7561061)  
AU-11000 (Stock No. 7561111)

Counductor Side

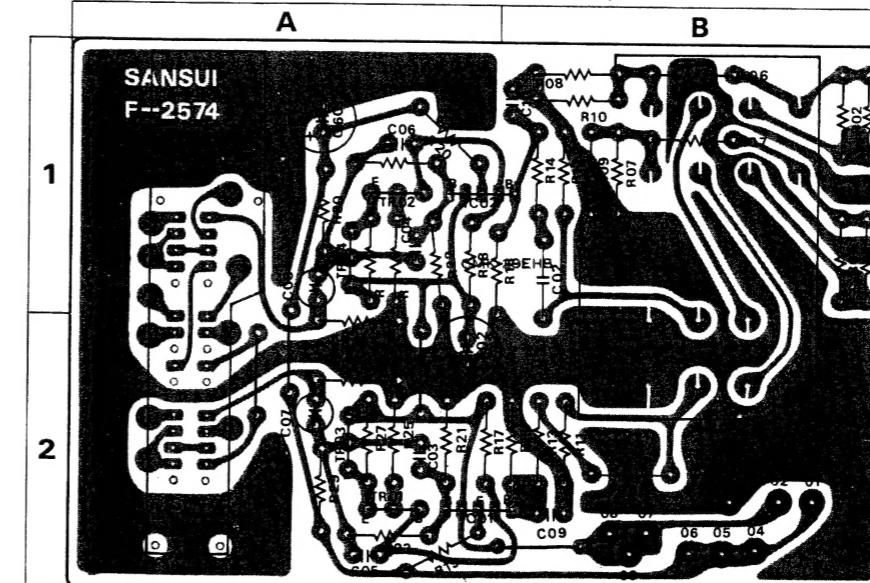


Parts List

Parts No.	Stock No.	Description	Position
TR01, 02	0306270	2SC1708 (F, G)	2B.2B
TR03, 04	0306070, 1	2SA847 (F, G)	2B.2B
C01, 02	0600158	0.15μF	2C.2C
C03, 04	0600477	0.047μF	2C.2C
C05, 06	0600567	0.056μF 50V M.C.	2C.2C
C07, 08	0600187	0.018μF	2C.2C
C09, 10	0601228	0.22μF	2C.2C
C11, 12	0600100	10μF 50V C.C.	2B.2B
C13, 14	0600566	0.0056μF	1B.1C
C15, 16	0600226	0.0022μF 50V M.C.	2C.1C
C17, 18	0600276	0.0027μF	2C.1C
C19, 20	0660100	10μF 50V C.C.	2B.2B
C21, 22	0533339	3.3μF 25V E.C.	2B.2B
R01, 02	0107103	10kΩ 1/4W C.R.	2A.2A
R03, 04	0107154	150kΩ	1B.1B
R05, 06	0107183	18kΩ	1B.1B
R07, 08	0106224	220kΩ	2C.2C
R09, 10	0106105	1MΩ	2C.1C
R11, 12	0106105	1MΩ	2C.1C
R13, 14	0106823	82kΩ	2B.2C
R15, 16	0106105	1MΩ	2C.1C
R17, 18	0106105	1MΩ 1/4W C.R.	2C.1C
R19, 20	0106394	390kΩ	2C.2C
R21, 22	0106394	390kΩ	2B.2B
R23, 24	0106102	1kΩ	2B.2B
R25, 26	0106473	47kΩ	2B.2C
R27, 28	0106222	2.2kΩ	2B.2C
R29, 30	0106562	5.6kΩ	2B.2B
R31, 32	0106105	1MΩ	1B.1C
VR01	1015170, 1	250kΩ Balance Volume	1A
S01	1190250	MODE Switch	1.2A
S02	1170770	MUTING Switch	
S03	1170950	LOW FILTER Switch	1C
S04	1170950	HIGH FILTER Switch	1C
	2410590	4P Pin Ass'y D type	
	2410600	6P Pin Ass'y D type	

**5-8. F-2574 Buffer AMP. Circuit Board** AU-9900 (Stock No. 7592881)  
AU-11000 (Stock No. 7592951)

Counductor Side



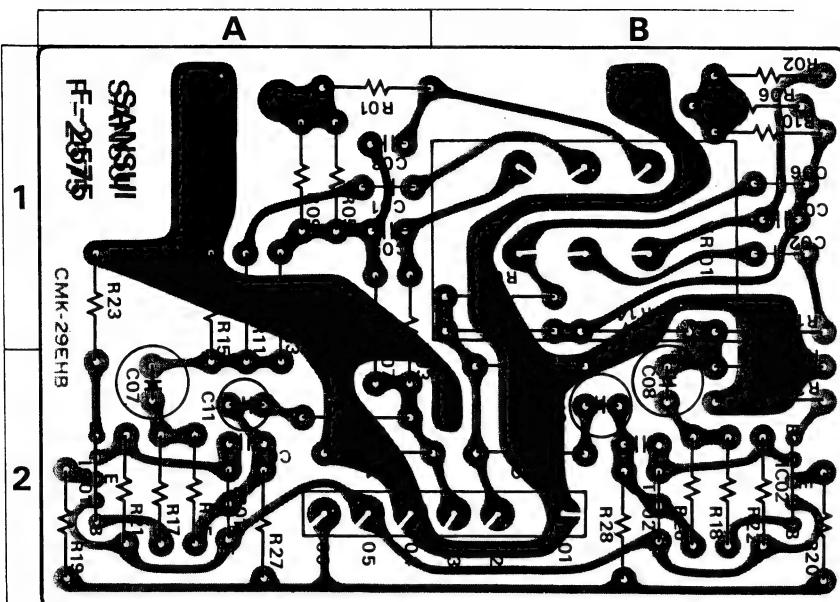
Parts List

Parts No.	Stock No.	Description	Position
TR01, 02	0306070, 1	2SC1313 (F, G)	2A.1A
TR03, 04	0306270, 1	2SC1708 (F, G)	2A.1A
IC01, 02	0360290, 1	2SA798 (F, G) IC	2A.B.1A
C01, 02	0601478	0.47μF 50V M.C.	2B.1B
C05, 06	0660100	10μF 50V C.C.	2A.1A
C07, 08	0533339	3.3μF 25V E.C.	2A.1A
C09, 10	0660330	33μF 50V C.C.	2B.1B
C601	0515100	10μF 50V E.C.	1A
C602	0515100	10μF 50V E.C.	2A
R01, 02	0107224	220kΩ	1B
R03, 04	0107274	270kΩ	1B
R05, 06	0107563	56kΩ	1B
R07, 08	0107393	39kΩ	1B
R09, 10	0107473	47kΩ	1B
R11, 12	0107564	56kΩ	2B.1B
R13, 14	0107332	3.3kΩ	2B.1B
R15, 16	0107684	680kΩ	2B.1A
R17, 18	0107103	10kΩ 1/4W C.R.	2A.1B
R19, 20	0107124	120kΩ	2A.1B
R21, 22	0107472	4.7kΩ	2A.1A
R23, 24	0107273	27kΩ	2A
R25, 26	0107101	100Ω	2A
R27, 28	0107473	47kΩ	2A
R29, 30	0107682	6.8kΩ	2A.1A
R33, 34	0107104	100kΩ	2A.1A
R35, 36	0106105	1MΩ	2C.1C
R37, 38	0106102	1kΩ	2B.2B
R39, 40	0107682	6.8kΩ 1/4W C.R.	2B.2B
R41, 42	0106101	100Ω	2B.2B
R43, 44	0106104	100kΩ	2B.2B
VR01	1090120	250kΩ × 2 Volume	1.2B
S01	1190290	Tone & Filter Switch	1.2A

## 5-9. F-2575 Tone-Midrange Circuit Board

**AU-9900 (Stock No. 7561071)**  
**AU-11000 (Stock No. 7561121)**

## Conductor Side



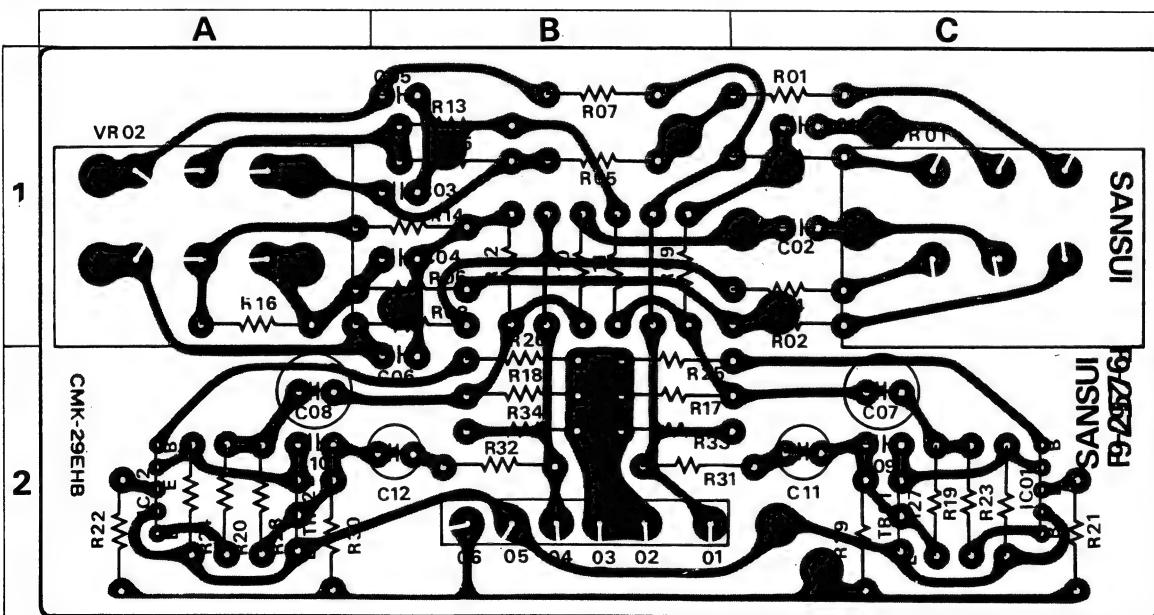
## Parts List

Parts No.	Stock No.	Description	Position	
TR01, 02	0306270, 1	2SC1708 (F, G) Transistor	1B.1A	
IC01, 02	0360290, 1	2SA798 (F, G) IC	1B.1A	
Cap, 02	06001068	0.0068μF	2B.2A	
C03, 04	0600107	0.01μF	50V M.C.	2B.2A
C05, 06	0600107	0.01μF	50V E.C.	2B.2A
C07, 08	0530470	47μF	6.3V E.C.	1B.1A
C09, 10	06660680	68pF	50V C.C.	1B.1A
C11, 12	0533339	3.3μF	25V E.C.	1B.1A
R01, 02	0107472	4.7kΩ	2B.2A	
R03, 04	0107472	4.7kΩ	1,2B.2A	
R05, 06	0107473	47kΩ	2B.2A	
R07, 08	0107473	47kΩ	1,2B.2A	
R09, 10	0107105	1MΩ	2B.2A	
R11, 12	0107272	27kΩ	2B.2A	
R13, 14	0107223	22kΩ	2B.2A	
R15, 16	0107104	100kΩ	2B.1A	
R17, 18	0107102	1kΩ	1 1/4W C.R.	1B.1A
R19, 20	0107124	120kΩ	1B.1A	
R21, 22	0107682	6.8kΩ	1B.1A	
R23, 24	0107102	1kΩ	2B.1A	
R25, 26	0107105	1MΩ	1B.1A	
R27, 28	0107682	6.8kΩ	1B.1A	
R29, 30	0107101	100Ω	1B.1A	
R31, 32	0107104	100kΩ	1B.1A	
VR01	1090150, 1	50kΩ (B) × 2 MID, Range Volume 2A		
	2410700	6P Pin Ass'y F type		

## 5-10. F-2576 Tone•Bass & Treble Circuit Board

AU-9900 (Stock No. 7561081)

### Conductor Side



## Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
TR01, 02	0306270, 1	2SC1708 (F, G) Transistor	2C. 2A	R03, 04	0107332	3.3kΩ	1C	R23, 24	0107682	6.8kΩ	2C. 2A
IC01, 02	0360290, 1	2SA798 (F, G)	2C. 2A	R05, 06	0107153	15kΩ	1B	R25, 26	0107102	1kΩ	2B
C01, 02	0620301	300pF 50V P.C.	1C. 1C	R07, 08	0107153	15kΩ	1B	R27, 28	0107105	1MΩ	2C. 2A
C03, 04	0600157	0.015/ $\mu$ F	1B. 1B	R09, 10	0107153	15kΩ	1B	R29, 30	0107682	6.8kΩ	1/4W C.R.
C05, 06	0600157	0.015/ $\mu$ F	1B. 2B	R11, 12	0107273	27kΩ	1B	R31, 32	0107101	100Ω	2B
C07, 08	0530470	47/ $\mu$ F 6.3V E.C.	2C. 2A	R13, 14	0107222	2.2kΩ	1/4W C.R.	R33, 34	0107104	100kΩ	2B
C09, 10	0660680	68pF 50V C.C.	2C. 2A	R15, 16	0107105	1MΩ	1B. 2A				
C11, 12	0533339	3.3/ $\mu$ F 25V E.C.	2C. 2B	R17, 18	0107104	100kΩ	2B	VR01	1090150, 1	50kΩ (B) $\times$ 2 Treble Volume	1C
R01, 02	0107332	3.3kΩ 1/4W C.R.	1C	R19, 20	0107102	1kΩ	2C. 2A	VR02	1090150, 1	50kΩ (B) $\times$ 2 Bass Volume	1A
				R21, 22	0107124	120kΩ	2C. 2A		2410700	6P Pin Assy F type	

**5-11. F-2581 Power AMP. (+) Circuit Board**

AU-9900 (Stock No. 7592901)

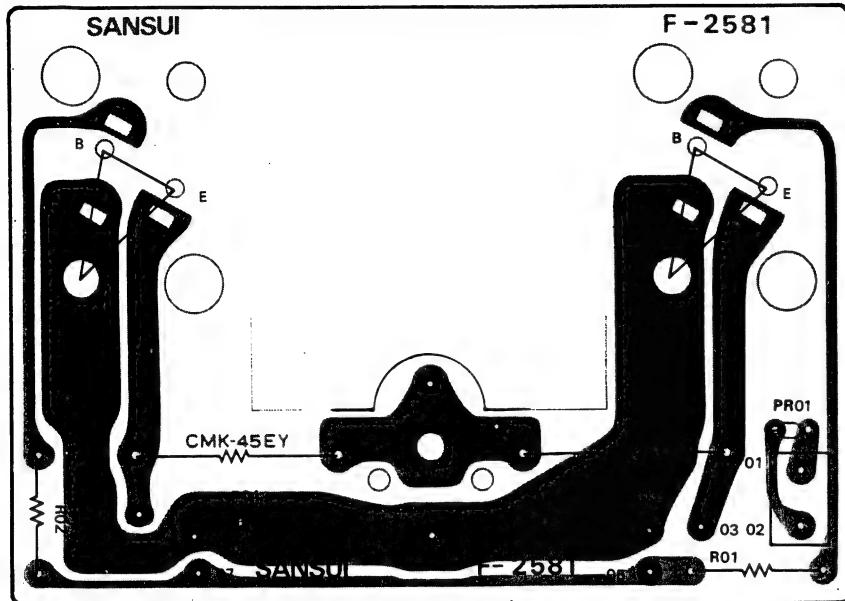
AU-11000 (Stock No. 7592971)

**5-12. F-2581 Power AMP. (-) Circuit Board**

AU-9900 (Stock No. 7592911)

AU-11000 (Stock No. 7592981)

**Counductor side**



**Parts List <+ Side>**

Parts No.	Stock No.	Description
TR01	0305841.2	2SC1116 (O, Y)
TR02	0305841.2	2SC1116 (O, Y)
		Transistor
R01	0103479	4.7Ω
R02	0103479	4.7Ω
R03	0135338	0.33Ω
R04	0135338	0.33Ω
	2030040	5 W Ce.R.
	2410650	Power Transistor Socket

**Parts List <- Side>**

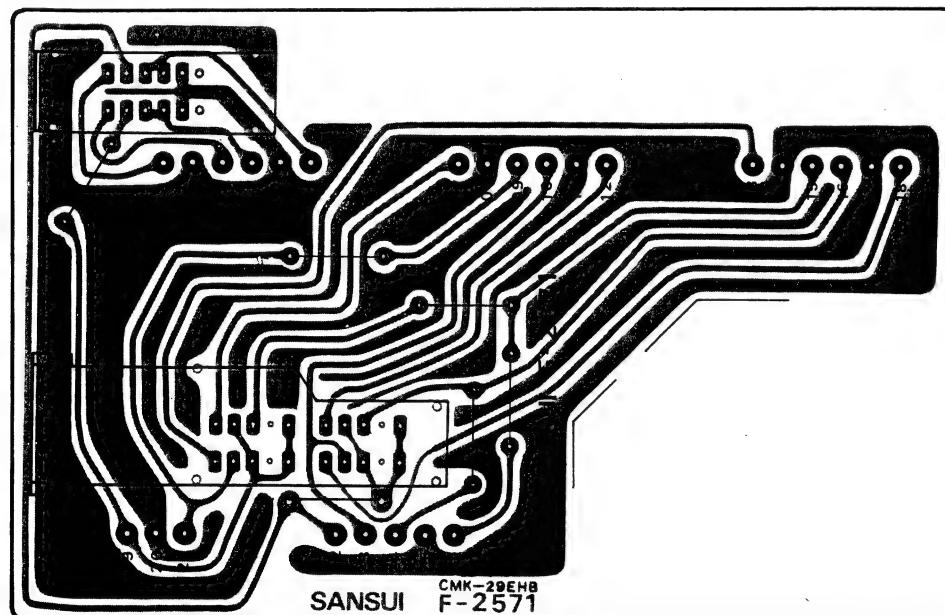
Parts No.	Stock No.	Description
TR01	0300521.2	2SA747 (O, Y)
TR02	0330521.2	2SA747 (O, Y)
		Transistor
PR01	0320120	Posistor 12.5V DC 500Ω
R01	0103479	4.7Ω
R02	0103479	3.7Ω
R03	0135338	0.03Ω
R04	0135338	0.03Ω
	2030040	5 W Ce.R.
	2410650	Power Transistor Socket
		2P Pin Ass'y D type

**5-13. F-2571 Tape Copy & Tuner Switch Circuit Board**

AU-9900 (Stock No. 7592861)

AU-11000 (Stock No. 7592931)

**Counductor Side**

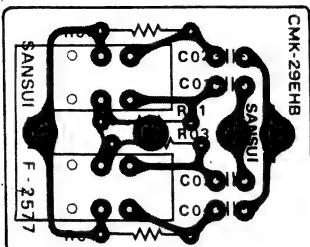


**Parts List**

Parts No.	Stock No.	Description
S01	1170870	Tuner Switch
S02	1190280	Tape Copy Switch

**5-14. F-2577 Tone Selector (Treble) Circuit Board** AU-9900 (Stock No. 7561091)  
AU-11000 (Stock No. 7561141)

Conductor Side

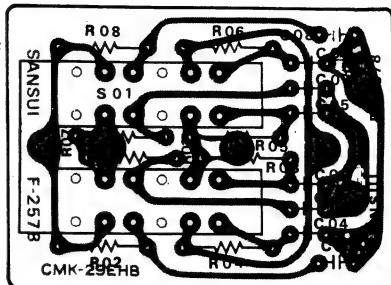


**Parts List**

Parts No.	Stock No.	Description
C01, 02	0620331	330pF
C03, 04	0620911	910pF } 50V P.C.
R01, 02	0107105	1MΩ
R03, 04	0107105	1MΩ } 1/4W C.R.
S01	1131150	Tone Selector, Treble Switch

**5-15. F-2578 Tone Selector (Bass) Circuit Board** AU-9900 (Stock No. 7561101)  
AU-11000 (Stock No. 7561151)

Conductor Side

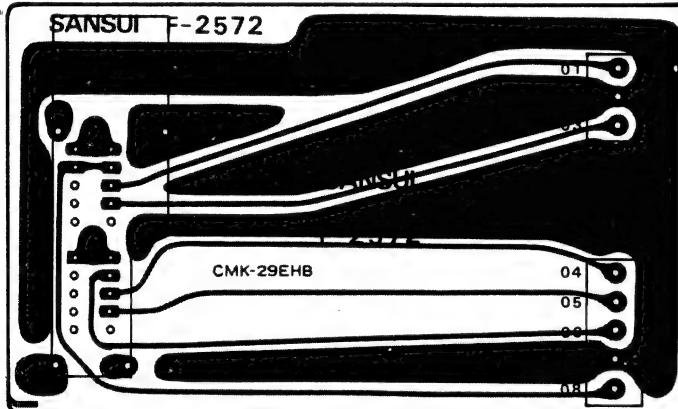


**Parts List**

Parts No.	Stock No.	Description
C01, 02	0600397	0.039μF
C03, 04	0600397	0.039μF
C05, 06	0600127	0.012μF } 50V M.C.
C07, 08	0600127	0.012μF
R01, 02	0107105	1MΩ
R03, 04	0107105	1MΩ } 1/4W C.R.
R05, 06	0107105	1MΩ } 1/4W C.R.
R07, 08	0107105	1MΩ
S01	1131140	Tone Selector Switch

**5-16. F-2572 Tape Play Circuit Board** AU-9900 (Stock No. 7592871)  
AU-11000 (Stock No. 7592941)

Conductor Side

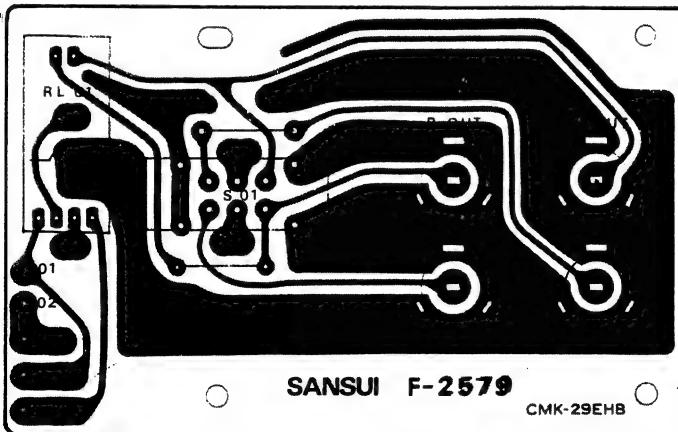


**Parts List**

Parts No.	Stock No.	Description
S01	1190270	Tape Play Switch
	2410760	3P Pin Ass'y
	2410780	6P Pin Ass'y

**5-17. F-2579 Pre-Main Switch Circuit Board** AU-9900 (Stock No. 7592891)  
AU-11000 (Stock No. 7592961)

Conductor Side

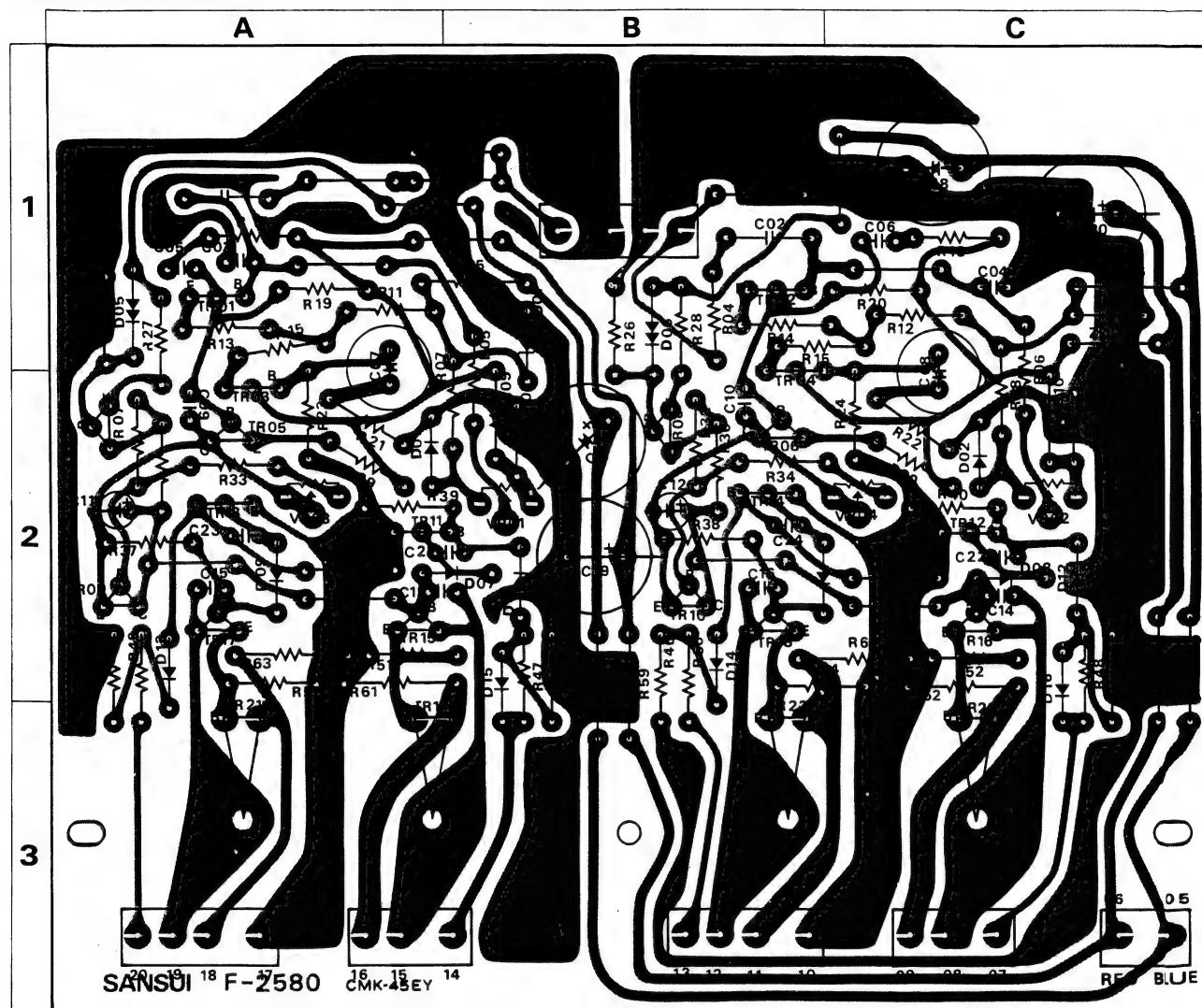


**Parts List**

Parts No.	Stock No.	Description
R901, 902	0107473	47KΩ
R101	1150320	Relay
S01	1110320	PRE-MAIN Switch
	2430260	1P Jack (white)
	2430270	1P Jack (red)

## 5-18. F-2580 Driver AMP. Circuit Board Conductor Side

AU-9900 (Stock No. 7571171)  
AU-11000 (Stock No. 7571181)



### Parts List

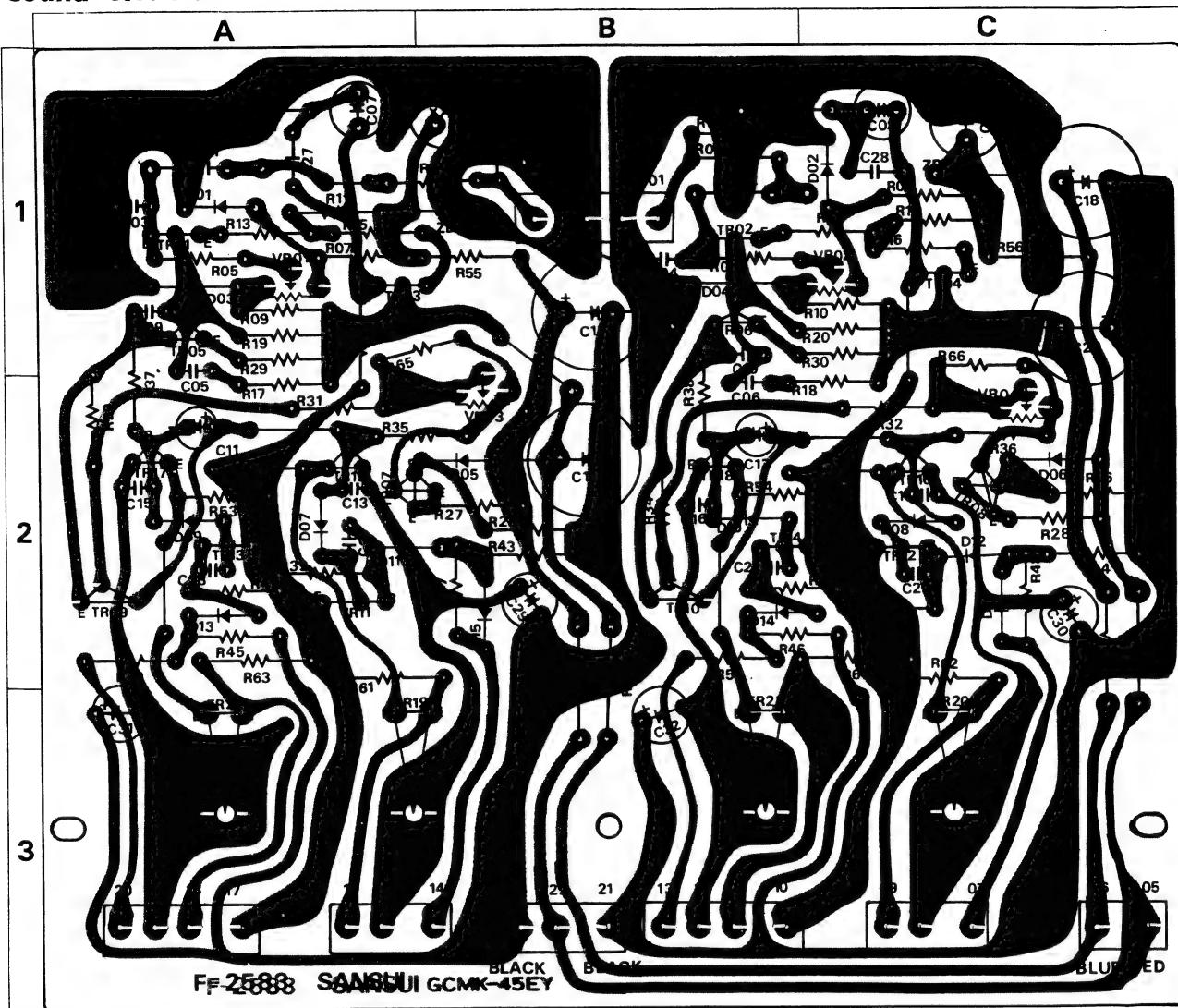
Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
TR01, 02	0300710, 1	2SA847 (F, G)	1A.1B	C05, 06	0660101	100pF 50V C.C.	1A.1C	R31, 32	0107562	5.6kΩ	1A.2B
TR03, 04	0300710, 1	2SA847 (F, G)	2A.1B	C07, 08	0531101	100pF 10V E.C.	1,2A.1C	R33, 34	0107102	1kΩ	1A.2B
TR05, 06	0306260, 1	2SC1628(O,Y)	2A.2B	C09, 10	0660220	22pF 50V C.C.	2A.2B	R35, 36	0107470	47Ω	1A.2B
TR07, 08	0300700, 1	2SA818 (O, Y)	2A.2B	C11, 12	0515109	1.1pF 50V E.C.	2A.2B	R37, 38	0107102	1kΩ	1A.2B
TR09, 10	0305871, 2	2SC984 (B, C)	2A.2B	C13, 14	0660330	33pF 50V E.C.	2A.2C	R39, 40	0107102	1kΩ	1A.2C
TR11, 12	0305640, 1	2SC735 (O, Y)	2A.2C	C15, 16	0660330	33pF 50V C.C.	2A.2B	R41, 42	0107102	1kΩ	1A.2C
TR13, 14	0300220, 1	2SA562 (O, Y)	2A.2B	C17, 18	0519903	100pF 80V E.C.	2B.1C	R43, 44	0107223	22kΩ	1B.2C
TR15, 16	0305900, 1	2SC1124 (1, 2)	2A.2C	C19, 20	0519903	100pF 80V E.C.	2B.1C	R45, 46	0107223	22kΩ	1A.2B
TR17, 18	0300480, 1	2SA706-5 (1,2)	2A.2B	R01, 02	0107474	470kΩ	1AB.1B	R47, 48	0107471	470Ω	1B.2C
TR19, 20	0308441, 2	2SD382 (M, L)	3A.1C	R03, 04	0107103	10kΩ	1AB.1B	R49, 50	0107471	470Ω	1A.2B
TR21, 22	0303271, 2	2SB537 (M, L)	3A.3B	R05, 06	0107154	150kΩ	1,2B.1,2C	R51, 52	0107122	1.2kΩ	1A.2B
D01, 02	0340090	Diode	2A.2C	R07, 08	0107682	6.8kΩ	2B.1,2C	R53, 54	0107122	1.2kΩ	1A.2B
D03, 04	0340090	Diode	2B.2C	R09, 10	0107393	39kΩ	2B.2C	R55, 56	0103123	12kΩ	1B.1C
D05, 06	0310490		1A.1B	R11, 12	0107472	4.7kΩ	1A.1C	R57, 58	0103221	220Ω	1B.2C
D07, 08	0311050	1S953	2AB.2C	R13, 14	0107470	47Ω	1A.1B	R61, 62	0103680	68Ω	1B.2C
D09, 10	0311050	1S953	2A.2B	R15, 16	0107470	47Ω	1A.1C	R63, 64	0103680	68Ω	1A.2A,B
D11, 12	0311050	1S953	2B.2C	R17, 18	0107221	220Ω	1A.1C	VR01, 02	1031470, 1	5kΩ (B) DC 0V Volume	1B.2C
D13, 14	0311050	1S953	2A.2B	R19, 20	0107182	1.8kΩ	1A.1C	VR03, 04	1031441	1kΩ (B) Bias Current Volume	1A.2C
D15, 16	0311050	1S953	2B.2C	R21, 22	0107222	2.2kΩ	2A.2C	2410580	3P Pin Ass'y D type		
ZD01, 02	0316250	RD-10E (B)	1B.1C	R23, 24	0107104	100kΩ	2A.2C	2410590	4P Pin Ass'y D type		
C01, 02	0601478	0.47pF 50V M.C.	1A.1B	R25, 26	0107473	47kΩ	1A.1B	2410650	2P Pin Ass'y D type		
C03, 04	0660470	47pF 50V C.C.	1A.1C	R27, 28	0107121	120Ω	1A.1B	2410680	4P Pin Ass'y F type		
				R29, 30	0107121	120Ω	2A.2C				

\* Driver amplifier circuit board either F-2580, F-2583, is used in this model. When replicating the printed circuit board, use same type of the board for easy installation.

## 5-19. F-2583 Driver AMP. Circuit Board

AU-9900 (Stock No. 7571311)  
AU-11000 (Stock No. 7571301)

## Counnductor Side



## Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
TR01, 02	0300470, 1	2SA726 (F, G)	1 A. 1 B	C07, 08	0531101	100 $\mu$ F 10V E.C.	1 A. 1 C	R27, 28	0107121	120 $\Omega$	2 B. 2 C
TR03, 04	0300470, 1	2SA726 (F, G)	1 A.B. 1 C	C09, 10	0660220	22pF 50V C.C.	1 A. 1 B	R29, 30	0107121	120 $\Omega$	1 A. 1 C
TR05, 06	0305900, 1	2SC1124 (1, 2)	1 A. 1 B	C11, 12	0515109	1 $\mu$ F 50V E.C.	2 A. 2 B	R31, 32	0107222	2.2k $\Omega$	2 A. 2 C
TR07, 08	0300770, 1	2SA818 (O, Y)	2 A.B. 2 C	C13, 14	0660330	33pF 50V C.C.	2 A. 2 C	R33, 34	0107102	1k $\Omega$	2 A. 2 C
TR09, 10	0305871, 2	2SC984 (B, C)	Transistor	C15, 16	0660330	33pF 50V C.C.	2 A. 2 B	R35, 36	0107470	47 $\Omega$ $\frac{1}{4}$ W C.R.	2 A.B. 2 C
TR11, 12	0305640, 1	2SC735 (O, Y)	2 A. 2 C	C17, 18	0519903	100 $\mu$ F 80V E.C.	1 B. 1 C	R37, 38	0107102	1k $\Omega$	1,2A. 1,2B
TR13, 14	0300220, 1	2SA562 (O, Y)	2 A. 2B, C	C19, 20	0519903	100 $\mu$ F 80V E.C.	2 B. 1 C	R39, 40	0107102	1k $\Omega$	2 A. 2 C
TR15, 16	0305900, 1	2SC1124 (1, 2)	2 A. 2 C	C21, 22	0601106	0.001 $\mu$ F 50V M.C.	2 A. 2 C	R41, 42	0107102	1k $\Omega$	2 A. 2B, C
TR17, 18	0300480, 1	2SC706-5, 1-2	2 A. 2 B	C23, 24	0601106	0.001 $\mu$ F 50V M.C.	2 A. 2 B	R43, 44	0107223	22k $\Omega$	2 B. 2 C
TR19, 20	0308441, 2	2SD382 (M, L)	3 A.B. 3 C	C25, 26	0512221	220 $\mu$ F 16V E.C.	1 B. 1 C	R45, 46	0107223	22k $\Omega$	2 A. 2B, C
TR21, 22	0303271, 2	2SB537 (M, L)	3 A. 3 B	C27, 28	0601108	0.1 $\mu$ F 50V M.C.	1 A. 1 C	R47, 48	0107471	470 $\Omega$ $\frac{1}{4}$ W C.R.	2 B. 2 C
D01, 02	0340090	DS-430	1 A. 1 C	C29, 30	0516339	3.3 $\mu$ F 63WV E.C.	2 B. 2 C	R49, 50	0107471	470 $\Omega$ $\frac{1}{4}$ W C.R.	2 A. 2 B
D03, 04	0340090	DS-430	1 A. 1 B	C31, 32	0516339	3.3 $\mu$ F 63WV E.C.	3 A. 3 B	R51, 52	0107122	1.2k $\Omega$	2 A. 2 C
D05, 06	0340120	VD1212	2 B. 2 C	R01, 02	0107474	470k $\Omega$	1 B	R53, 54	0107122	1.2k $\Omega$	2 A. 2B, C
D07, 08	0311050	1S953	2 A. 2 C	R03, 04	0107103	10k $\Omega$	1 A.B. 1 B	R55, 56	0103562	5.6k $\Omega$	1 B. 1 C
D09, 10	0311050	1S953	2 A. 2 B	R05, 06	0107154	150k $\Omega$	1 A. 1 B	R57, 58	0103221	220 $\Omega$	2,38. 2C
D11, 12	0311050	1S953	2 A.B. 2 C	R07, 08	0107682	6.8k $\Omega$	1 A. 1 C	R59, 60	0103221	220 $\Omega$ $\frac{1}{4}$ W C.R.	2,38. 2C
D13, 14	0311050	1S953	2 A. 2 B	R09, 10	0107273	27k $\Omega$	1 A. 1 C	R61, 62	0103680	68 $\Omega$	2 A. 2 C
D15, 16	0311050	1S953	2 B. 2 C	R11, 12	0107472	4.7k $\Omega$	1 A. 1 C	R63, 64	0103680	68 $\Omega$	2 A. 2 C
ZD01, 02	0316310	RD-13E (B)	1 B. 1 C	R13, 14	0107470	47 $\Omega$ $\frac{1}{4}$ W C.R.	1 A. 1 C	R65, 66	0107472	4.7k $\Omega$ $\frac{1}{4}$ W C.R.	1 A. 1 C
C01, 02	0601478	0.47 $\mu$ F 50V M.C.	1 A. 1 B	R15, 16	0107470	47 $\Omega$	1 A. 1 C	VR01, 02	1031470, 1	5k $\Omega$ (B) DC 0V Volume	1 A. 1 C
C03, 04	0660470	47pF 50V C.C.	1 A. 1 B	R17, 18	0107221	220 $\mu$ F	1 A. 1 C	VR03, 04	1031480, 1	10k $\Omega$ (B) Bias Current Volume	2 B. 2 C
C05, 06	0660101	100pF 50V C.C.	1 A. 2 B	R19, 20	0107821	820 $\Omega$	1 A. 1 C	2410580	2410590	3P Pin Ass'y D type	
				R21, 22	0107222	2.2k $\Omega$	1 A. 1 B, C	2410590	2410650	4P Pin Ass'y D type	
				R23, 24	0107104	100k $\Omega$	1 A. 1 C	2410650	2410680	2P Pin Ass'y D type	
				R25, 26	0107473	47k $\Omega$	2 B. 2 C	2410680	2410680	4P Pin Ass'y F type	

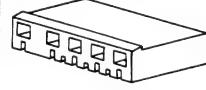
## 5-20. Figures

### Semiconductors

SEMICONDUCTORS	COMPLETE CIRCUIT BOARD	SEMICONDUCTORS	COMPLETE CIRCUIT BOARD	SEMICONDUCTORS	COMPLETE CIRCUIT BOARD	SEMICONDUCTORS	COMPLETE CIRCUIT BOARD
2SA733 2SC1364		F-2568	2SA706 2SC1124		F-2567 F-2580	IN60	F-2568
2SC984		F-2580	2SA747 2SC1116		F-2581	10D-1 10D-2	F-2567
2SA726 2SA847 2SC1313 2SC1708		F-2567 F-2568 F-2570 F-2573 F-2574 F-2575 F-2576	2SA562 2SC735		F-2580	DS430 VD1212	F-2580
2SB526		F-2567 F-2568	2SA818 2SC1628		F-2580	SV-02	F-2568
2SB537 2SD356 2SD382		F-2567 F-2568 F-2580	2SA798		F-2570 F-2574 F-2575 F-2576	RD-10E RD-13E RD-39E	F-2567 F-2568 F-2580

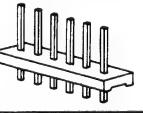
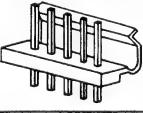
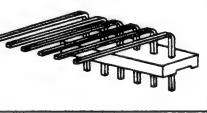
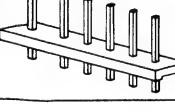
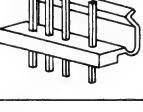
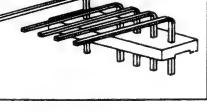
### Connector & Pin Ass'y

#### Connector

Type A (3~10 pins)	Type B (2~6 pins)	Stock No.
		
2 Pins	2420250	
3 Pins	2420220	
4 Pins	2420230	
5 Pins	2420210	
6 Pins	2420240	

NOTE: Since stock number of female connectors (type B) with wires are not shown in each parts list of Complete circuit board, please refer to the above parts list when ordering the connector.

#### Pin Ass'y

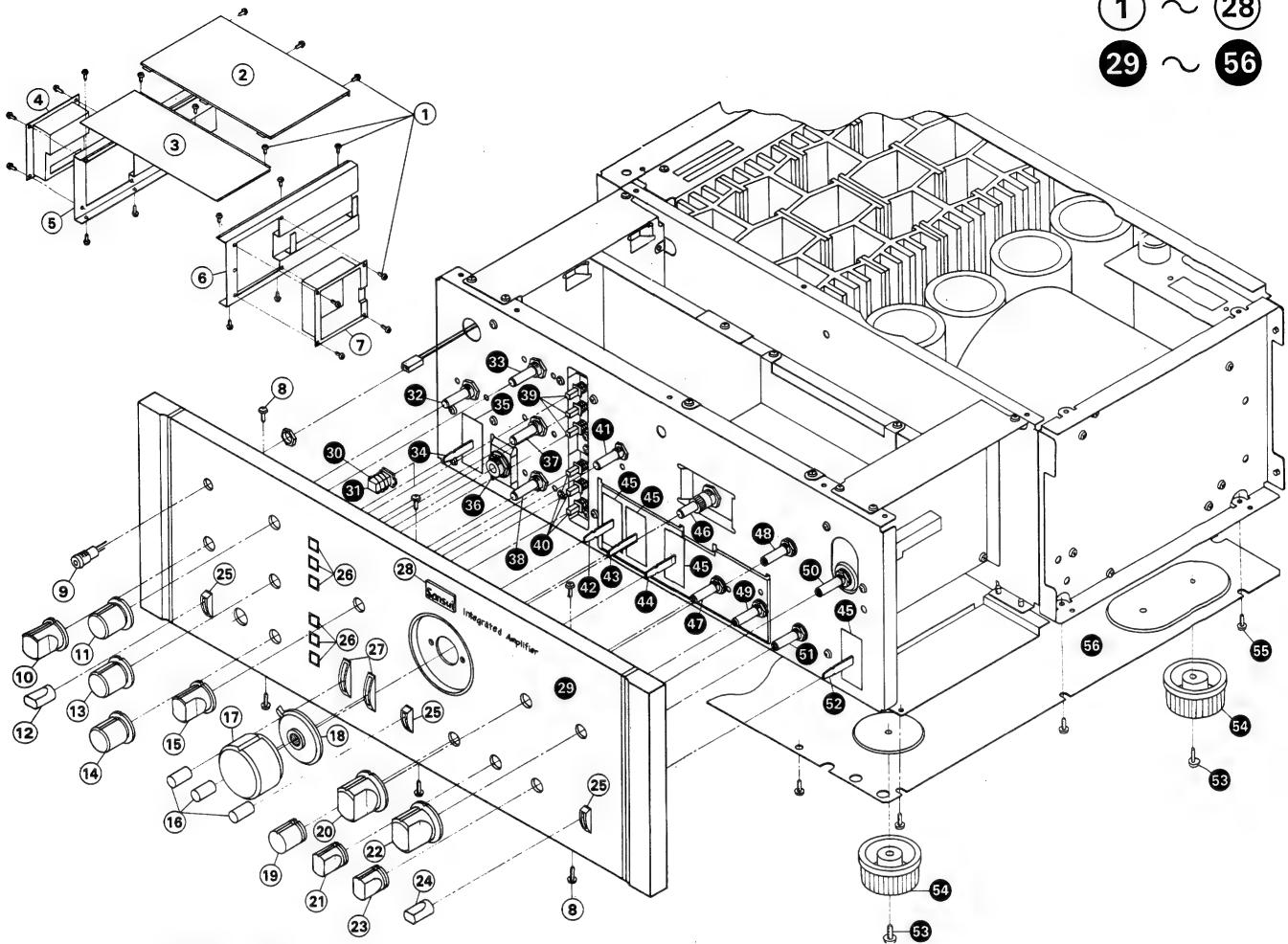
Type A (3~10 pins)	Type B (3~10 pins)	Type C (3~10 pins)
		
Type D (2~6 pins)	Type E (2~6 pins)	Type F (2~6 pins)
		

#### Abbreviations

C.R.	: Carbon Resistor	B.P.E.C.	: Bi-Polar Electrolytic Capacitor
S.R.	: Solid Resistor	C.C.	: Ceramic Capacitor
Ce.R.	: Cement Resistor	M.I.C.	: Mica Capacitor
M.R.	: Metallized Film Resistor	O.C.	: Oil Capacitor
M.C.	: Mylar Capacitor	P.C.	: Polystyrene Capacitor
E.C.	: Electrolytic Capacitor	T.C.	: Tantalum Capacitor

## 5-21. Other Parts (Front Side)

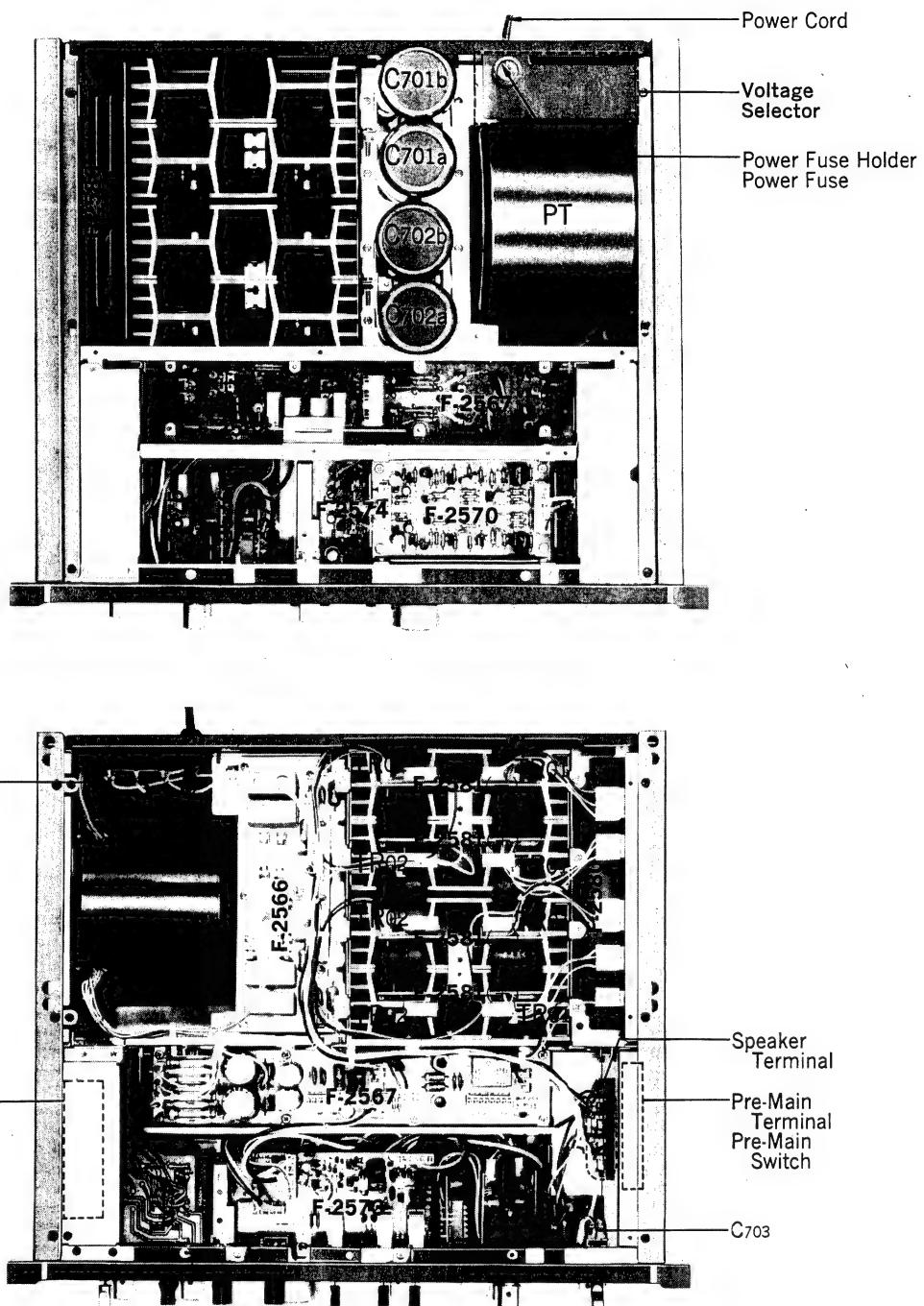
1 ~ 28  
29 ~ 56



### Parts List

Parts No.	Stock. No.	Description	Parts No.	Stock. No.	Description
1	5109222	Binding Head Tapping Screw M3×8	30	6906480	Spring, Push Knob
2	5006470	Bonnet (A)	31	5326530	Push Knob
3	5006520	Bonnet (B)	32	1101700, 1	Rotary Switch, Speakers Switch
4	5287420	Output Terminal Base	33	1090150, 1	50kΩ×2, Treble Volume
5	5304080	Side Bonnet L-CH	34	1170330	Lever Switch, Power
6	5304090	Side Bonnet R-CH	35	5047470	Masking, Lever Switch
7	5287410	Input Terminal Base	36	2430190	Headphone Jack
8	5109222	Binding Head Tapping Screw M3×8	37	1090150, 1	50kΩ×2, Midrange Volume
9	7726140	LED Ass'y, Protector Indicator	38	1090150, 1	50kΩ×2, Bass Volume
10	5318260	C-6 Type Knob, Speaker Switch	39	1131150	Push Switch, Tone Selector (Treble)
11	5318251	B-6 Type Knob, Treble Volume	40	1131140	Push Switch, Tone Selector (Bass)
12	5326510	E-2 Type Knob, Power Switch	41	1190290	Tone & Filter Switch
13	5318251	B-6 Type Knob, Midrange Volume	42	1170950	Low Filter Switch
14	5318251	B-6 Type Knob, Bass Volume	43	1170950	High Filter Switch
15	5318260	C-6 Type Knob, Tone & Filter Switch	44	1170770	Lever Switch, Muting
16	5326520	E-3 Type Knob, Filter & Muting Switch	45	5047470	Masking, Lever Switch
17	5318360	G-6 Type Knob, Volume	46	1090120	250kΩ, Volume
18	5326540	Level Set Knob	47	1015170, 1	250kΩ, Balance Volume
19	5318270	D-6 Type Knob, Balance Volume	48	1190270	Tape Play Switch
20	5318370	H-6 Type Knob, Tape Play Switch	49	1190250	Mode Switch
21	5318280	F-6 Type Knob, Mode Switch	50	1190260	Input Selector
22	5318370	H-6 Type Knob, Input Selector	51	1190280	Tape Copy Switch
23	5318280	F-6 Type Knob, Tape Copy Switch	52	1170870	Lever Switch, Tuner
24	5326510	E-2 Type Knob, Tuner Switch	53	5101161	Binding Head Screw, M4×10
25	5286731	Lever Guide (1)	54	5517050	Leg
26	5286721	Knob Guide	55	5109222	Binding Head Tapping Screw, M3×8
27	5286741	Lever Guide (2)	56	5058491	Bottom Plate
28	5336580	Sansui Mark			
29	7007140	Panel Ass'y (AU-11000)			
	7007150	Panel Ass'y (AU-9900)			

## 5-22. Other Parts (Top & Bottom Side)

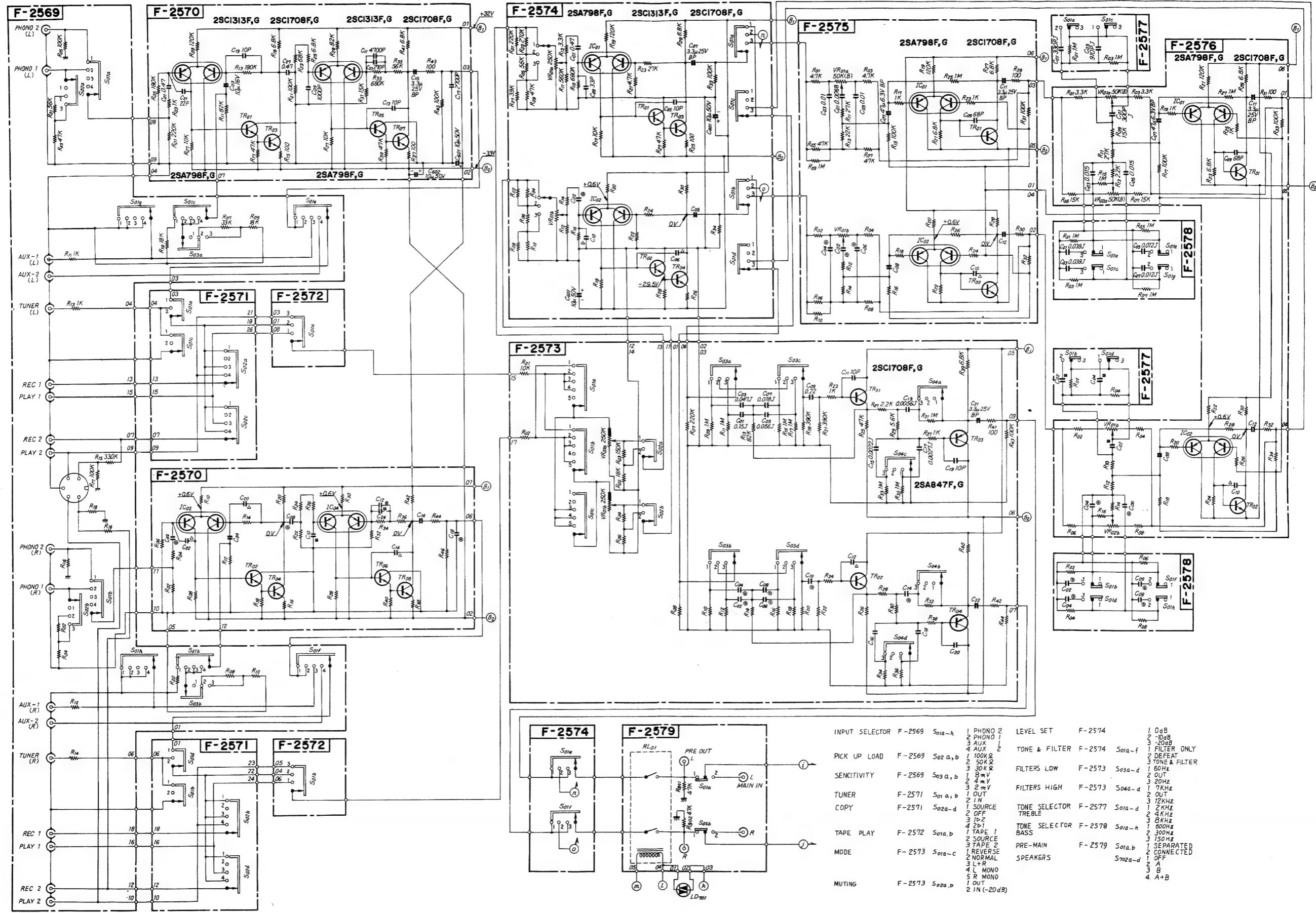


### Parts List

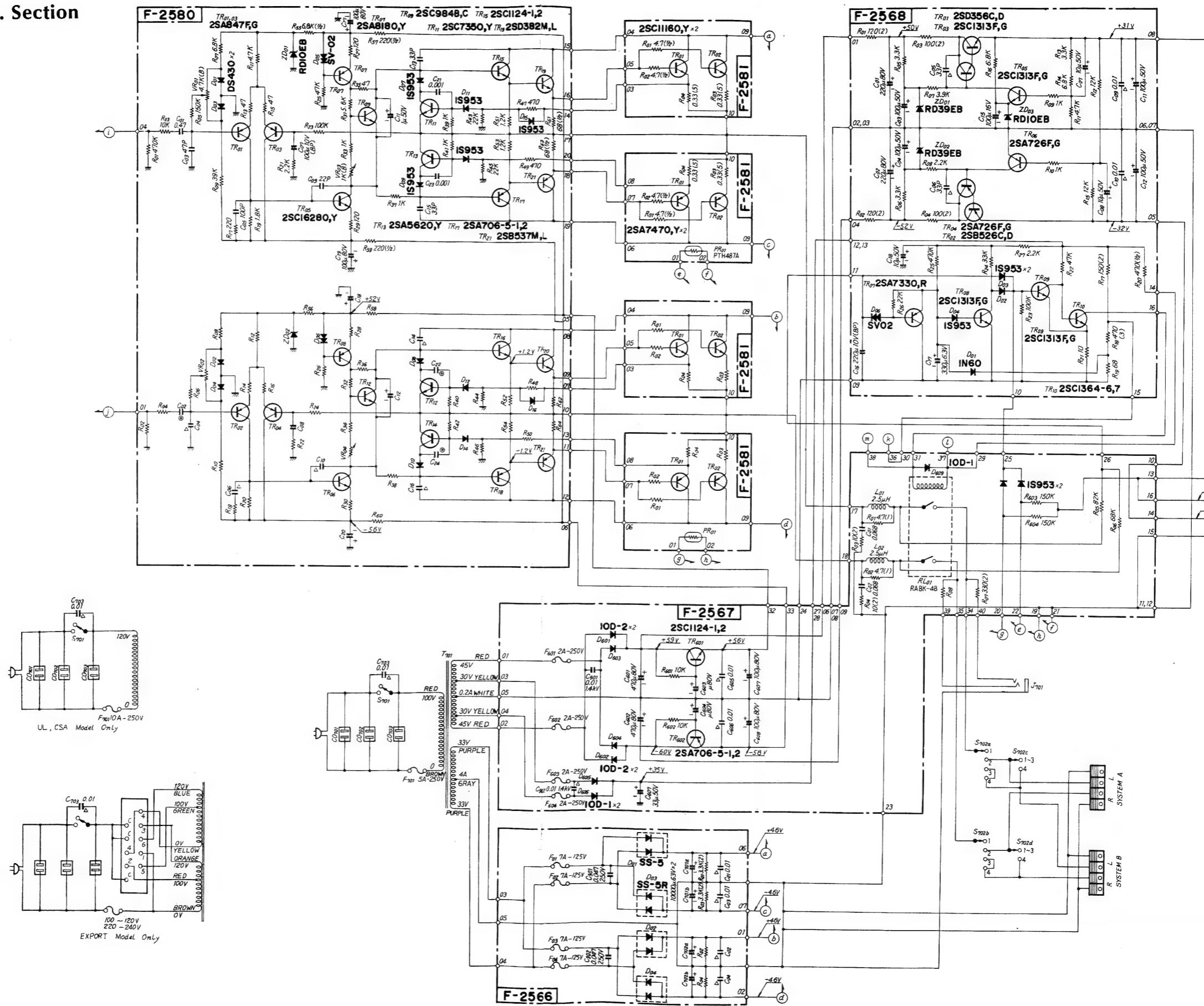
Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
F-2581 (+ Side)			2410830		Voltage Selector Socket
TR01,02 0305841,2	25C1116		2090030		Din Jack
F-2581 (- Side)		Power Transistor	1110310		Pick-up Load Switch
TR01,02 0300521	25A747		1110310		Sensitivity Switch
C701,702 0559514	10000/ $\mu$ F 63V $\times$ 2 E.C. (AU-11000)		1110320		Pre-Main Switch
C701,702 0559513	6800/ $\mu$ F 63V $\times$ 2 E.C. (AU-9900)		2430270		Pre-Main Terminal (red)
C703 0659801	0.1/ $\mu$ F 150V C.C.		2430260		Pre-Main Terminal (white)
F701 (0431280	5A 250V (AC 100V~120V)		2290160		Speaker Terminal
(0431320	10A 250V (AC 220V~240V)		2450060		AC Outlet
2300060	Power Fuse Holder		2430270		Input Terminal (red)
3800250	Power Cord		2430260		Input Terminal (white)
2290150	Ground Terminal		4002280		Power Transformer (AU-11000)
2410091	Voltage Selector plug		4002290		Power Transformer (AU-9900)

\* La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suite d'améliorations éventuelles.  
\* Anderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.  
\* Design and specification subject to change without notice for improvements.

## 6. SCHEMATIC DIAGRAM / 6-1. AU-9900 Pre AMP. Section

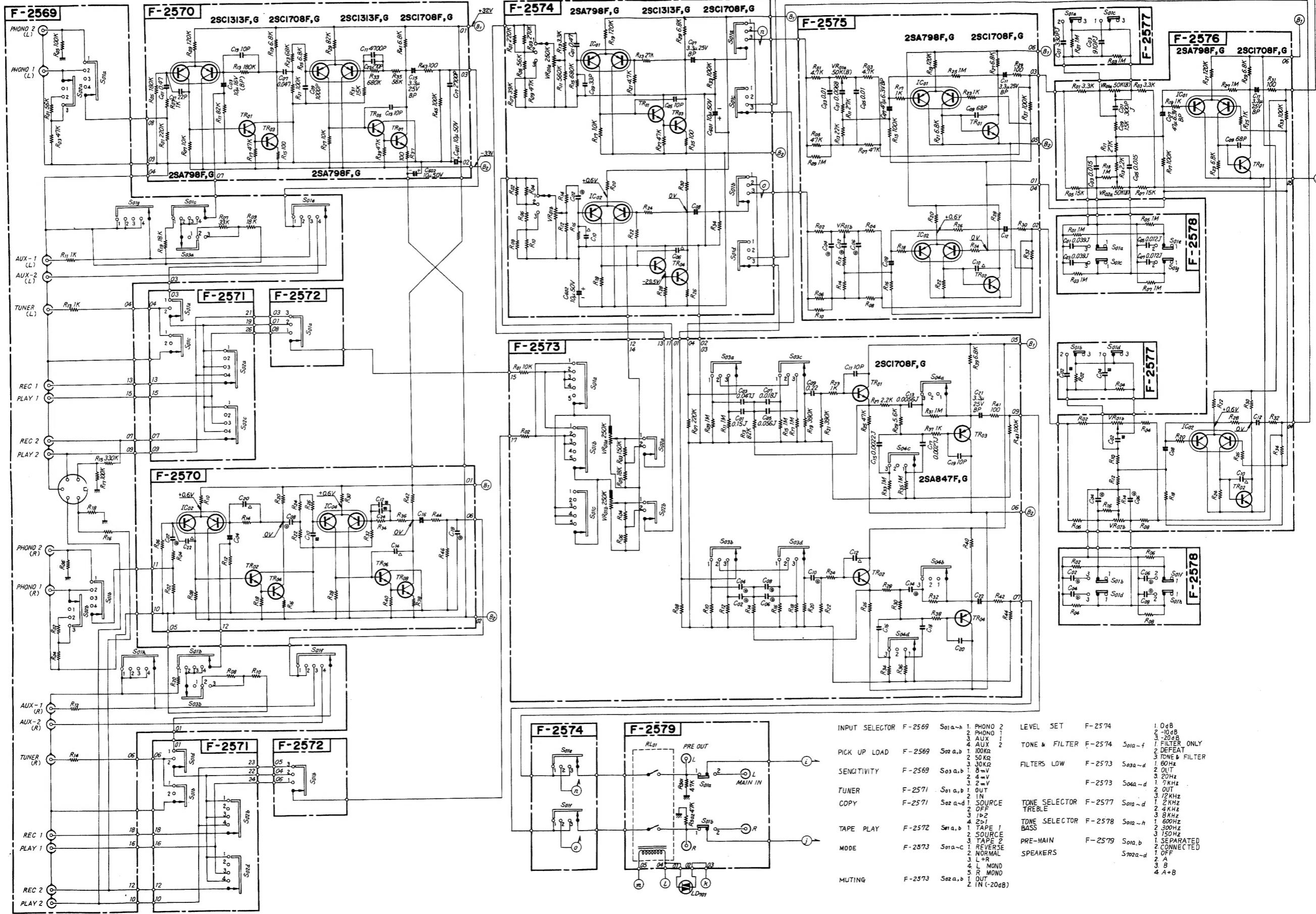


## 6-2. AU-9900 Power AMP. Section



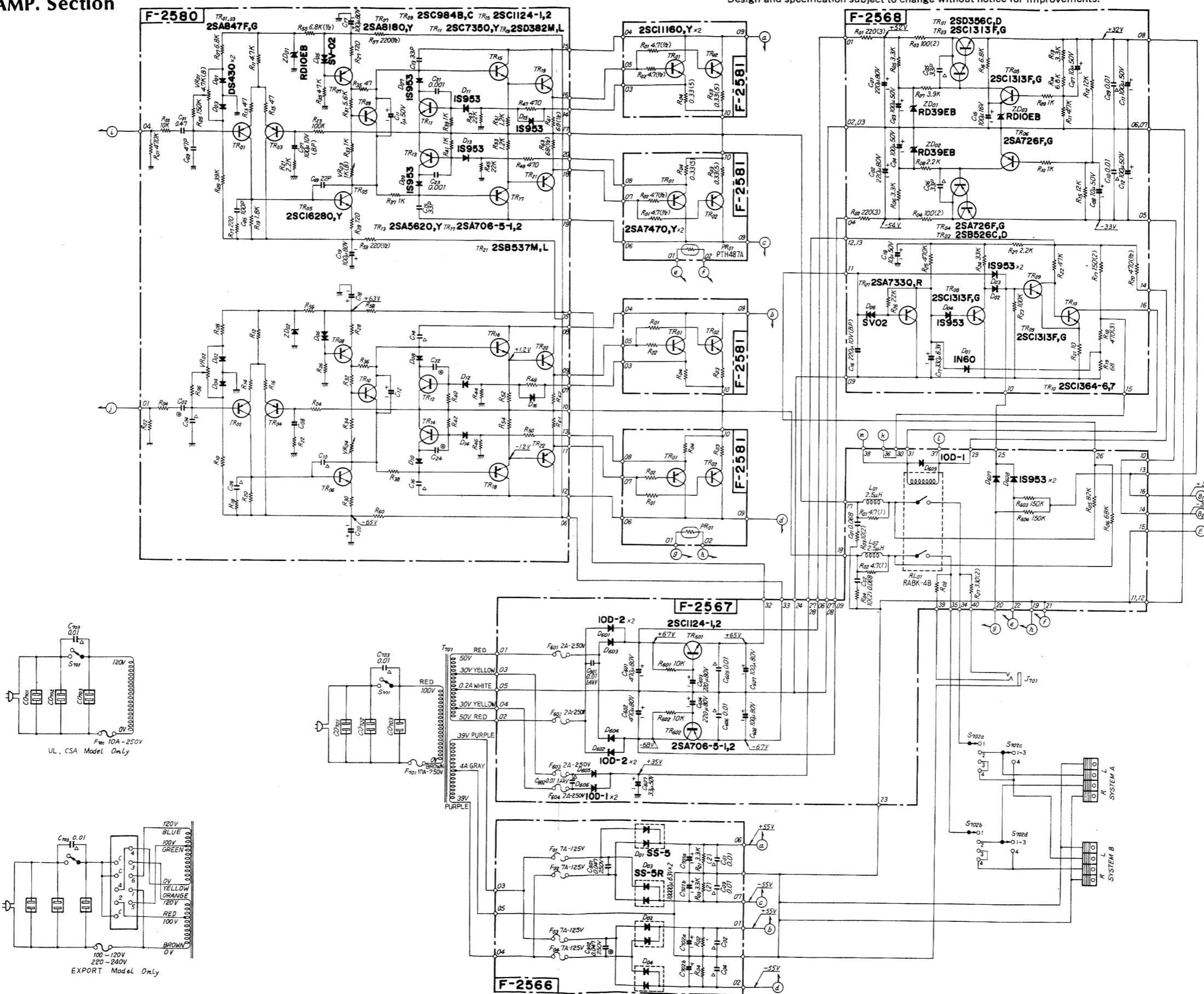
\* La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suite d'améliorations éventuelles.  
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\* Design and specification subject to change without notice for improvements.

### 6-3. AU-11000 Pre AMP. Section



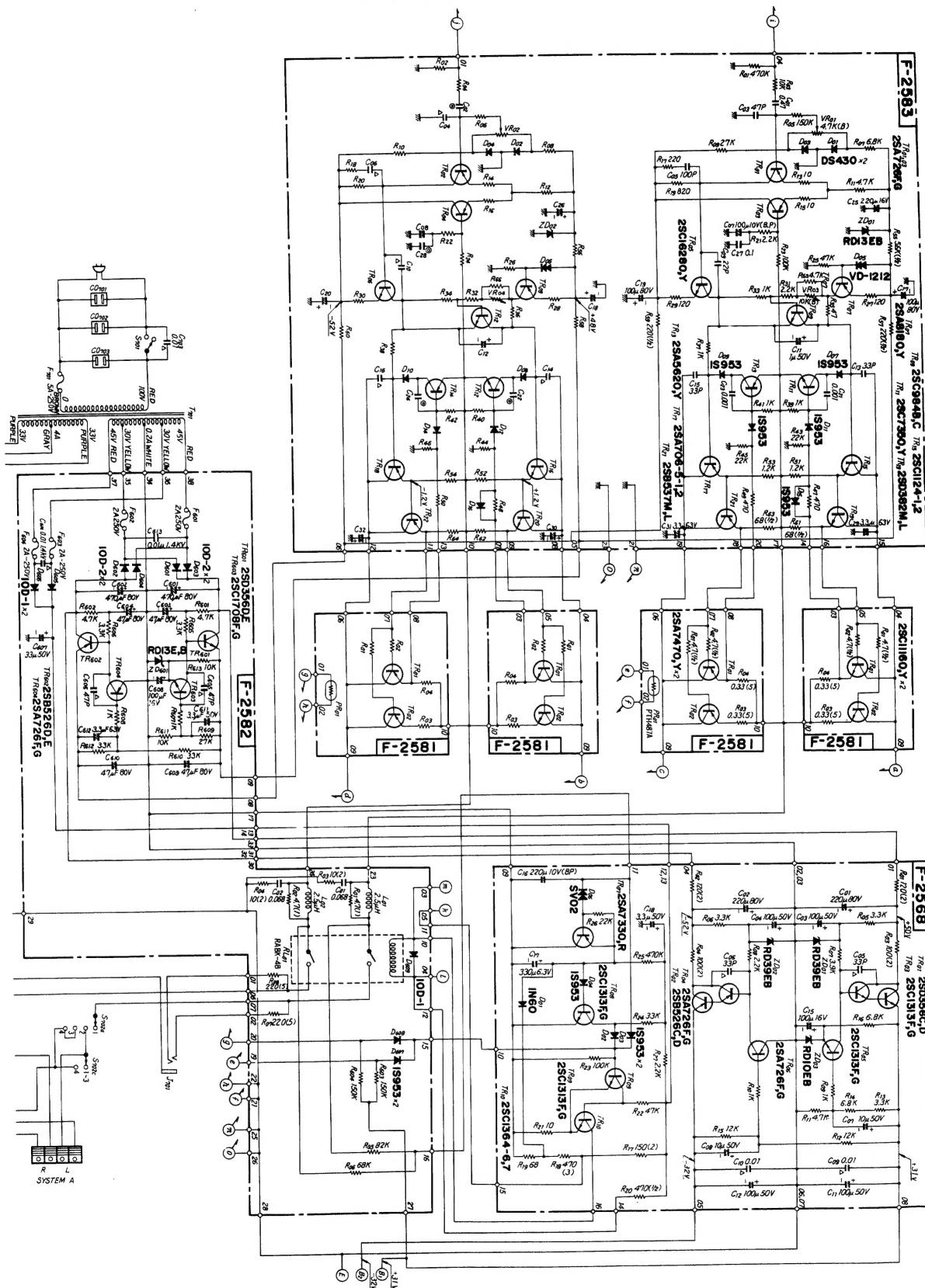
## 6-4. AU-11000 Power AMP. Section

\* La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suite d'améliorations éventuelles.  
 \* Anderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.  
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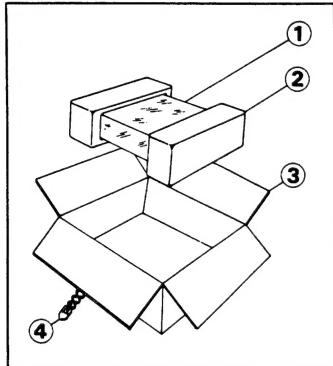
## 6-5. F-2582, F-2583

\* Power supply circuit board either F-2567 or F-2582 is used and driver amplifier either F-2580 or F-2583 is used in this model.



## 7. PACKING LIST

Parts No.	Stock No.	Description
1	9116051	Vinyl Cover
2	9027910	Stylofoam Packing
3	9009040	Carton Case (AU-9900)
	9009070	Carton Case (AU-11000)
4	5996080	Curl Stopper



## 8. ACCESSORY PARTS LIST

Parts No.	Stock No.	Description
	9209230	Operating Instructions (AU-9900)
	9209210	Operating Instructions (AU-11000)
	2410560	Short Pin Plug
	9237010	Schematic Diagram (AU-11000)
	9237020	Schematic Diagram (AU-9900)



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